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OM protein - protein search, using sw model

Run on: September 30, 2003, 09:47:37 : Search time 15.5731 Seconds
(without alignments)
1736.110 Million cell updates/sec

Title: US-09-806-955A-1

Perfect score: 3273
Sequence: 1 MEEDKEDVGVGIDLGTT.....AGPPTGEDETAELHHHHH 639

Scoring table:

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

Issued Patents AA:*
1: /cgn2_6/prodata1/1aa/5A.COMB.pep:*
2: /cgn2_6/prodata1/1aa/5B.COMB.pep:*
3: /cgn2_6/prodata1/1aa/5A.COMB.pep:*
4: /cgn2_6/prodata1/1aa/5B.COMB.pep:*
5: /cgn2_6/prodata1/1aa/5B.COMB.pep:*
6: /cgn2_6/prodata1/1aa/Backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	3209	98.0	654	1 US-08-441-139-11	Sequence 11, Appl
2	3168	96.8	666	1 US-08-441-139-16	Sequence 16, Appl
3	2313.5	70.7	655	4 US-09-632-538C-36	Sequence 36, Appl
4	2174	66.4	682	1 US-08-441-139-2	Sequence 2, Appl
5	2156	65.9	663	1 US-08-441-139-7	Sequence 7, Appl
6	2083	63.6	890	4 US-09-513-783A-174	Sequence 174, App
7	2077	63.5	646	1 US-08-441-139-14	Sequence 14, Appl
8	2065.5	63.1	679	1 US-08-441-139-5	Sequence 5, Appl
9	1938	59.2	643	3 US-08-797-358B-3	Sequence 3, Appl
10	1547.5	47.3	679	1 US-08-214-583-2	Sequence 2, Appl
11	1513	46.2	616	4 US-09-134-001C-3646	Sequence 3646, Ap
12	1495	45.7	642	4 US-09-207-388-15	Sequence 15, Appl
13	1495	45.6	662	4 US-09-207-388-16	Sequence 16, Appl
14	1492	45.6	657	4 US-09-207-388-13	Sequence 13, Appl
15	1492	45.6	657	4 US-09-252-991A-27358	Sequence 27358, A
16	1484	45.3	711	4 US-09-613-303-41	Sequence 41, Appl
17	1480.5	45.2	724	4 US-09-613-303-45	Sequence 45, Appl
18	1478.5	45.2	660	4 US-09-328-352-4932	Sequence 4932, Ap
19	1474	45.0	641	1 US-08-441-139-4	Sequence 4, Appl
20	1461.5	44.7	649	1 US-09-066-047-5	Sequence 5, Appl
21	1444	44.1	607	2 US-08-472-534-5	Sequence 5, Appl
22	1399.5	42.8	536	4 US-09-107-532A-6930	Sequence 6930, Ap
23	1378	42.1	539	4 US-09-198-452A-543	Sequence 543, App
24	1303.5	39.8	600	6 5240706-1	Patent No. 5240706
25	1297	39.6	562	4 US-09-207-388-14	Sequence 14, Appl
26	1255	38.3	253	4 US-09-581-001B-8	Sequence 8, Appl
27	1140.5	34.8	339	2 US-08-928-692-52	Sequence 52, Appl

28	1140.5	34.8	339	4 US-09-339-972-52	Sequence 52, Appl
29	1077	32.9	415	4 US-09-207-388-12	Sequence 12, Appl
30	990.5	30.3	623	4 US-09-252-991A-22906	Sequence 22906, A
31	973.5	29.7	620	4 US-09-328-352-7730	Sequence 7730, Ap
32	941	28.8	187	6 5196523-13	Patent No. 5196523
33	842	25.7	199	4 US-09-581-001B-7	Sequence 7, Appl
34	824	25.2	168	1 US-08-441-139-10	Sequence 10, Appl
35	818.5	25.0	315	1 US-08-257-073-7	Sequence 7, Appl
36	801.5	24.5	941	4 US-09-513-783A-172	Sequence 172, App
37	750.5	22.9	471	1 US-08-203-905B-2	Sequence 2, Appl
38	726.5	22.2	472	1 US-08-203-905B-14	Sequence 14, Appl
39	701	21.4	307	4 US-08-858-207A-461	Sequence 461, App
40	680.5	20.8	196	4 US-09-581-001B-9	Sequence 9, Appl
41	642.5	19.6	129	6 5196523-10	Patent No. 5196523
42	607.5	18.6	999	2 US-08-770-301A-3	Sequence 3, Appl
43	607.5	18.6	999	2 US-09-175-581-3	Sequence 3, Appl
44	598	18.3	999	2 US-08-770-301A-1	Sequence 1, Appl
45	598	18.3	999	3 US-09-175-581-1	Sequence 1, Appl

ALIGNMENTS

RESULT 1
US-08-441-139-11
Sequence 11, Application US/08441139
Patent No. 5773245
GENERAL INFORMATION:
APPLICANT: Wiltup, Dr. Karl D.
TITLE OF INVENTION: METHODS FOR INCREASING SECRETION OF
NUMBER OF SEQUENCES: 20
CORRESPONDENCE ADDRESS:
ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
STREET: 400 Garden City Plaza
CITY: Garden City
STATE: NY
COUNTRY: USA
ZIP: 11530
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,139
FILING DATE: 15-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/089,997
FILING DATE: 06-JUL-1993
ATTORNEY/AGENT INFORMATION:
NAME: Digiglio, Frank S.
REGISTRATION NUMBER: 31,346
REFERENCE/DOCKET NUMBER: 8646
TELECOMMUNICATION INFORMATION:
TELEPHONE: 516-742-4343
TELEFAX: 516-742-4366
TELEX: 230 901 SANS UR
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 654 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-441-139-11
Query Match 98.0%; Score 3209; DB 1; Length 654;
Best Local Similarity 99.7%; Pred. No. 1.1e+249;
Matches 629; Conservative 0; Mismatches 0; Gaps 0;

QY	2	EEEDKEDGVGVADIDGTTTSCVGVFKNGARVEIIANOGNRITPSVAATPPEGELIDA	61
QY	2	EEEDKEDGVGVADIDGTTTSCVGVFKNGARVEIIANOGNRITPSVAATPPEGELIDA	61
Db	20	EEEDKEDGVGVADIDGTTTSCVGVFKNGARVEIIANOGNRITPSVAATPPEGELIDA	79
QY	62	AKNOLTSPEPTVYDARKRLIGRTWMDPSVODIKFLPFXVYEKTKPTPYIQVDIGGGQKT	12
Db	80	AKNOLTSPEPTVYDARKRLIGRTWMDPSVODIKFLPFXVYEKTKPTPYIQVDIGGGQKT	135
QY	122	FAPEEISAMVLTKKKETAEAATLGKKTAVHTVPAFYFNDAGQATDACTIAGLVNARI	181
Db	140	FAPEEISAMVLTKKKETAEAATLGKKTAVHTVPAFYFNDAGQATDACTIAGLVNARI	199
QY	182	NEPTAAALAVGLDOKREBEKNIILVFDLGGSTPDVSLTTIDNGVEFYATNGDTHLGGEDF	24
Db	200	NEPTAAALAVGLDOKREBEKNIILVFDLGGSTPDVSLTTIDNGVEFYATNGDTHLGGEDF	255
QY	242	QVMEHFITKLKKKTGKDVAKNDRAVOKLREVEKAKRALSSOHQARIEESFEYGEDFS	303
Db	260	QVMEHFITKLKKKTGKDVAKNDRAVOKLREVEKAKRALSSOHQARIEESFEYGEDFS	319
QY	302	EUTLFAKFEELNMLPEFTMKPQVOKYLESDLSKSDIDELVYGGSTRIPKIQOLVKEEF	36
Db	320	EUTLFAKFEELNMLPEFTMKPQVOKYLESDLSKSDIDELVYGGSTRIPKIQOLVKEEF	378
QY	362	NCKEPSRCINDEAVAAVGAAGVAGVLSGPDGTGLVLDVCPPLTIEITGVGVMKLIIPR	422
Db	380	NCKEPSRCINDEAVAAVGAAGVAGVLSGPDGTGLVLDVCPPLTIEITGVGVMKLIIPR	439
QY	422	NTVVPTRKSQIFSTASNOPPTVIKVEBEERPLTKDNHLCTGDLGCIIPARGVPOLEY	48
Db	440	NTVVPTRKSQIFSTASNOPPTVIKVEBEERPLTKDNHLCTGDLGCIIPARGVPOLEY	499
QY	482	TPEIDVNGILVATAEADKGTGNKKRITITIDONRLTPEEIRMYNDAEKEFAEDBKXKLERI	541
Db	500	TPEIDVNGILVATAEADKGTGNKKRITITIDONRLTPEEIRMYNDAEKEFAEDBKXKLERI	558
QY	542	DFRNLSEYAAALSKNOIGDKERKLGKLSSEKKEIMKAVBEKTEMLSESHODADIEDPFAK	60
Db	560	DFRNLSEYAAALSKNOIGDKERKLGKLSSEKKEIMKAVBEKTEMLSESHODADIEDPFAK	619
QY	602	KKELEIVQPIISKLYGSACPPPTGEEDTAE	632
Db	620	KKELEIVQPIISKLYGSACPPPTGEEDTSE	650
RESULT 2			
US-08-441-139-16			
Sequence 16, Application US/08441139			
Patent No. 5773245			
GENERAL INFORMATION:			
APPLICANT: Wiltup, Dr. Karl D.			
APPLICANT: Robinson, Anne S.			
TITLE OF INVENTION: METHODS FOR INCREASING SECRETION OF			
RECOMBINANTLY EXPRESSED PROTEINS			
NUMBER OF SEQUENCES: 20			
CORRESPONDENCE ADDRESS:			
ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER			
STREET: 400 Garden City Plaza			
CITY: Garden City			
STATE: NY			
COUNTRY: USA			
ZIP: 11530			
COMPUTER READABLE FORM:			
MEDIUM TYPE: Floppy disk			
COMPUTER: IBM PC compatible			
OPERATING SYSTEM: PC-DOS/MS-DOS			
SOFTWARE: Patent Release #1.0, Version #1.25			
CURRENT APPLICATION DATA:			
APPLICATION NUMBER: US/08/441,139			
FILING DATE: 15-MAY-1995			
CLASSIFICATION: 435			
PRIOR APPLICATION DATA:			
APPLICATION NUMBER: US 08/089,997			

```

; FILING DATE: 06-JUL-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: DIGILIO, Frank S.
; REGISTRATION NUMBER: 31, 346
; REFERENCE/DOCKET NUMBER: 8646
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 516-742-4366
; TELEFAX: 516-742-4343
; FAX: 230 901 SANS UR
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 666 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-441-139-16

Query Match          96.8%; Score 3168; DA 1; Length 666;
Best Local Similarity 97.8%; Pred. No. 2,2e-246;
Matches 617; Conservative 11; Mismatches 3; Indels 0; Gaps 0;

OY      2 EEDKKEDVGVTVGIDLTCTTSCVCVFKNKGRVEIIANDOGNRITPVSVAFTPGBERLIGDA 61
Db      32 DEEKKEDEVTVVGIDLTCTTSCVCVFKNKGRVEIIANOGNRIIPSVSAFTPGBERLIGDA 91

OY      62 AKKQGLSNENVTVPAAKRRLRGRTWMDPSVOODIKFLPFKVYEKKTKPTLYOVLDGGGQRT 121
Db      92 AKKQGLSNENVTVPAAKRRLRGRTWMDPSVOODIKFLPFKVYEKKAKPHILOVDGGGQRT 151

OY      122 FAPEEISAVLTLMKETAEALVLGKKVTHAATVVPAFYNDAROTYDAGTAGLVNMRI 181
Db      152 FAPEEISAVLTLMKETAEALVLGKKVTHAATVVPAFYNDAROTYDAGTAGLVNMRI 211

OY      182 NEPTTAALIVYGDKRKEKENILYPDLGGGTFDVSLTLTDNGCFEEVATNGDTHLGCEPD 241
Db      212 NEPTTAALIVYGDKRKEKENILYPDLGGGTFDVSLTLTDNGCFEEVATNGDTHLGCEPD 271

OY      242 QRVMEHFILKYKKKTGKDVKRNRAVOKLRREVEKARALSQHARIIESFFBGEDS 301
Db      272 QRVMEHFILKYKKKTGKDVKRNRAVOKLRREVEKARALSQHARIIESFFBGEDS 331

OY      302 ETLTRAKFPBELAMDLPFRSTMKPVGKVLBDSDLKSDIDEITVLVGGSTRIPIQQOLVKEFF 361
Db      332 ETLTRAKFPBELAMDLPFRSTMKPVGKVLBDSDLKSDIDEITVLVGGSTRIPKIQQLVKEFF 391

OY      362 NGKEPSRGINPDEAAVYAQAQVLSGDODTGCLVLLDYCPFLTGIETVYGVMRKILPR 421
Db      392 NGKEPSRGINPDEAAVYAQAQVLSGDODTGCLVLLDYCPFLTGIETVYGVMRKILPR 451

OY      422 NTVPAPKKSQIFESTASDNQPVTIVVYGERPLRKDNHLLGTGDTLGIRPPARGVQIEV 481
Db      452 NTVPAPKKSQIFESTASDNQPVTIVVYGERPLRKDNHLLGTGDTLGIRPPARGVQIEV 511

OY      482 TFEIDVNGILNTAADKCGKGNKNTTTINDONRLTPREIERMWNDAEKAEBDKALKERI 541
Db      512 TFEIDVNGILNTAADKCGKGNKNTTTINDONRLTPREIERMWNDAEKAEBDKALKERI 571

OY      542 DTFNELESYAVALKNOIGDKERKLGSSEDEKETEKAVERKIEMLESHQADIEDDFKAK 601
Db      572 DARNELESYAVALKNOIGDKERKLGSSEDEKETEKAVERKIEMLESHQADIEDFKSK 631

OY      602 KKELEEIVOPITISKLYSGAGPPPTGEETAT 632
Db      632 KKELEEIVOPITISKLYSGAGPPPTGEETALE 662

RESULT 3
US-09-632-538C-36
; Sequence 36. Application US/09632538C
; Patent No. 6440674
; GENERAL INFORMATION:
; APPLICANT: Misra, Santosh et al.
```

TITLE OF INVENTION: PLANT PROMOTER DERIVED FROM LUMINAL BINDING PROTEIN GENE AND METHOD OF INVENTION: ITS USE
 FILE REFERENCE: 54359
 CURRENT APPLICATION NUMBER: US/09/632,538C
 CURRENT FILING DATE: 2000-08-04
 NUMBER OF SEQ ID NOS: 37
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO: 36
 LENGTH: 655
 TYPE: PRT
 ORGANISM: Pseudotsuga menziesii
 US-09-632-538C-36

Query Match 70.7%; Score 2313.5; DB 4; Length 655;
 Best Local Similarity 70.1%; Pred. No. 1, 2e-177;
 Matches 446; Conservative 89; Mismatches 96; Indels 5; Gaps 3;

2 EEDKEDVGVVGDIDGTTTSCVGVKNGRVEIANDOGNRTPTSYAFTEPGERLIGDA 61
 20 EEAAR--LGTVIGDIDGTTTSCVGVKNGRVEIANDOGNRTPTSYAF--DTERLIGEA 76
 62 AKNOLTSPEVTADARLIGRTMNDPSVOODIKLPFRVVEKTKRPTIYDVGCGGT 121
 77 AKNOAMNPEVTVDYKRLIGRTKEDKEVQDKLPLKIVNCKGKPTIYQVIRGGEIKV 136
 122 PAPEISAMVITKKKETAEAYLQKVTTHAVTVPAVFNDQROATKDGATAGLNVMRI 181
 137 FSPPEISAMILKKKEAESYLGRTIKDAVTVPAVFNDQROATKDGAVIGLVARI 196
 182 NEPTAAIAYGLDRBEKKNILVEDLGGTFDVSLLTIDNGFEVAVATNGDTHLGGEPD 241
 197 NEPTAAIAYGLDKKGGKKNILVYDGGTFDVSLLTIDNGFEVAVATNGDTHLGGEPD 256
 242 ORWHEHFKLYKKKTGGDVKRNANOKLREVEKAKKRLSSOHQARIEFTSEFTGEDPS 301
 257 ORWMDYFKLVKKHNDISKDNALQGLRRECEKAKKRLSSOHQARIEFTSEFTGEDPS 316
 302 ETLTAKFEELNMDLFRSTJKPVQKYLEDSLKKSDIDEIVLVGSGTRIPKIQOLVKEFF 361
 317 EPLTARAREELNMDLFRKTLGPKVKKALDDANLQKTEINELVYLVGSGTRIPKIQOLVKEFF 376
 362 NGKESRGINDDEAVAGAAGVAGVLSGD--QDTGLVLLDVCPLTGLTGVGVTKLI 419
 377 DGEENKGVNDEAVAGAAGVAGVLSGEGDETKTILDLVAAPSLGLTGVGVTKLI 436
 420 PRNVTVPFKKSQIFSTASDNOPTVTIKVYGERPLTKDNHLLGTFDIATGTPAPRGVPOI 479
 437 PRNVTVPFKKSQIFSTASDNOPTVTIKVYGERPLTKDNHLLGTFDIATGTPAPRGVPOI 496
 480 EYTPEDVNGILNTADKGTGNKNTTTNDQNRILTPREIERMVDADAKFADEKKEIKE 539
 497 EYTEEVADNGILNTRADKGTGKTEKTTTNDGRISQSEIERMVEAEAEFEDEKKEIKD 556
 540 RIDTNELESYAYSLKQIDGKELGKLSSEDEKEMKAVEKEIKELIEMSHODADIEFK 599
 557 KIDANNLETIVYVMKSTINBKOKLADKIDSDEKKEIKETAIKALEMIDNDGNSAKEDFE 616
 600 AKKKELEIVPITISKLYGSAGPPPGGEEDTALAH 635
 617 EKLKEVAVGSPITIKOYERTGGSGGDEDEDSDH 652

RESULT 4
 US-08-441-139-2
 Sequence 2, Application US/08441139
 Patent No. 5773245
 GENERAL INFORMATION:
 APPLICANT: Wittup, Dr. Karl D.
 APPLICANT: Robinson, Anne S.
 TITLE OF INVENTION: METHODS FOR INCREASING SECRETION OF
 NUMBER OF SEQUENCES: 20
 CORRESPONDENCE ADDRESS:

ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
 STREET: 400 Garden City Plaza
 CITY: Garden City
 STATE: NY
 COUNTRY: USA
 ZIP: 11530
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/441,139
 FILING DATE: 15-MAY-1995
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/089,997
 FILING DATE: 06-JUL-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: Digilio, Frank S.
 REGISTRATION NUMBER: 31,346
 REFERENCE/DOCKET NUMBER: 8646
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 516-742-4343
 TELEFAX: 516-742-4366
 TELEX: 230 901 SANS UR
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 682 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-441-139-2

Query Match 66.4%; Score 2174; DB 1; Length 682;
 Best Local Similarity 67.1%; Pred. No. 2e-166;
 Matches 430; Conservative 86; Mismatches 115; Indels 10; Gaps 6;

4 DKREVGTVVVGIDGTTTSCVGVKNGRVEIANDOGNRTPTSYAFTEPGERLIGDAK 63
 11 DEVENGTIVIGDIDGTTTSCVAVKNGRTEILANEGONRTPTSYAF--DDERLIGDAK 102
 64 NOLTSNPEVTADARLIGRTMNDPSVOODIKLPFRVVEKTKRPTIYDVGCGGTGTPA 123
 103 NOVAANPONTTIFDIRLIGRTMNDPSVOODIKLPFRVVEKTKRPTIYDVGCGGTGTPA 161
 124 PEISAMVITKKKETAEAYLQKVTTHAVTVPAVFNDQROATKDGATAGLNVMRI 183
 162 PEISAMILKKKEAESYLGRTIKDAVTVPAVFNDQROATKDGAVIGLVARI 221
 184 PTAAPAIAYGLDRBEKKNILVEDLGGTFDVSLLTIDNGFEVAVATNGDTHLGGEPD 243
 222 PTAAPAIAYGLDRBEKKNILVEDLGGTFDVSLLTIDNGFEVAVATNGDTHLGGEPD 281
 244 VMEHFKLYKKKTGGDVKRNANOKLREVEKAKKRLSSOHQARIEFTSEFTGEDPS 303
 282 IVROLKAKFKKHGIDVSDNKKALAKLREVEKAKKRLSSOHQARIEFTSEFTGEDPS 341
 304 LTRAKFEELNMDLFRSTJKPVQKYLEDSLKKSDIDEIVLVGSGTRIPKIQOLVKEFF 363
 342 LTRAKFEELNMDLFRKTLGPKVKKALDDANLQKTEINELVYLVGSGTRIPKIQOLVKEFF 401
 364 KEPSRGINDDEAVAGAAGVAGVLSGDQDTGLVLLDVCPLTGLTGVGVTKLI 423
 402 KKASGINDDEAVAGAAGVAGVLSGEGDETKTILDLVAAPSLGLTGVGVTKLI 461
 424 VVPTKKSQIFSTASDNOPTVTIKVYGERPLTKDNHLLGTFDIATGTPAPRGVPOI 483
 462 ALPTKKSQIFSTASDNOPTVTIKVYGERPLTKDNHLLGTFDIATGTPAPRGVPOI 521
 484 EYDVGILNTRADKGTGNKNTTTNDQNRILTPREIERMVDADAKFADEKKEIKERIDT 543
 522 ALDANGILKVSATDKGTGKSSITTTNDGRISQSEIERMVEAEAEFEDEKKEIKAKVES 581

OY 544 RNLESAVSLKNOI-GDKELGCKLSEDEKMEKAVEEIKEMLESH-ODADIEFKAK 601
 DB 582 RNKLENTAHSKNOVGD---LGEKLEEDKETLLDANVLELDONFETALAEDEK 638
 OY 602 KKELEIVOPITISKLYGSA--GPPPTGEEDTAELHHHHH 639
 DB 639 FESLSKVAAPTISKLYGADSGADYDDEDEDDCDYFEH 679

RESULT 5
 US-08-441-139-7
 Sequence 7, Application US/08441139
 Patent No. 5773245

GENERAL INFORMATION:
 APPLICANT: Wiltup, Dr. Karl D.
 APPLICANT: Robinson, Anne S.
 TITLE OF INVENTION: METHODS FOR INCREASING SECRETION OF
 NUMBER OF SEQUENCES: 20
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
 STREET: 400 Garden City Plaza
 CITY: Garden City
 STATE: NY
 COUNTRY: USA
 ZIP: 11530

COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/441.139
 FILING DATE: 15-MAY-1995
 CLASSIFICATION: 435

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/089,997
 FILING DATE: 06-JUL-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: Digiglio, Frank S.
 REGISTRATION NUMBER: 31,346
 REFERENCE/DOCKET NUMBER: 8646
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 516-742-4343
 TELEFAX: 516-742-4366
 TELEX: 230 901 SANS UR

INFORMATION FOR SEQ ID NO: 7:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 663 amino acids
 TYPE: amino acid
 TOPOLOGY: linear

MOLECULE TYPE: protein
 US-08-441-139-7

Query Match 65.9%; Score 2156; DB 1; Length 663;
 Best Local Similarity 67.5%; Pred. No. 5.5e-165;
 Matches 425; Conservative 92; Mismatches 107; Indels 6; Gaps 6;

OY 2 EEDKEDGTVAGIDGCTTSCVGFKNRVEIILANDOGNRITPSYAFTEPEERLIGDA 61
 DB 27 DNSTSEYGTGIDGCTTSCVAAKMGKREIILANDOGNRITPSYAFTEPEERLIGDA 85
 OY 62 AKKQLTSPENVTPEAKRLIGRTWMDPSVODIKFLPEKVEKTKPYIOVDIGGQTKT 121
 DB 86 AKQOASNPENITFDIKRLIGRKPEDEKTMARDIKSPFHIVNDKRLDPLVEVNV-GGKKKK 144
 OY 122 FAREEISAVLTKRKETAAYLGKRVTHAVTVPAYFNDQROATKAGTLAGLWNRRI 181
 DB 145 FTEEBEISAMLSKMKQTAAYLGKRVTHAVTVPAYFNDQROATKAGTLAGLWNRRI 204
 OY 182 NEPTAAAIAYGLDKRGEKNILVFDLGGGTFDVSLITDNGVEFVAVTNGDTHLGGEDP 241

DB 205 NEPTAAAIAYGLDKTDTTEKHIVYVDLGGGTFDVSLITDNGVEFVAVTNGDTHLGGEDP 264
 OY 242 QRYMEHFPIKLYKKTKGKDYRKDNRAVOKLRREVERAKARALLSSQQAITELESYEEEDDS 301
 DB 265 NRININTLARTYKRNKNVDDTKDLKAMGKLKREVEANQNTSSQSVRIETESFFNODDS 324
 OY 302 ETLTRAKFEELNMDLFRSTYKPKVQKLEDSDLKRSIDELIVYGGSTRIRKIOOLYKEFF 361
 DB 325 ETLTRAKFEELKNGSLQEDFEPVEQVLDKNSLKSEIDDIYLVGGSTRIRKIOOLYKEFF 384
 OY 362 NGKEPSRGINPDEAVAGAAVAGVLSGSDDOTGDLVLLDVCPLTGLIETGYGWTAKLR 421
 DB 385 -GRKASKGINPDEAVAGAAVAGVLSGSDSDNVLVDVPLTGLIETGYGWTAKLR 443
 OY 422 NTVVPTKRSQIFSTASDNPVTYIKVYGEERPLTKDNHLLCTPDLTGIPPAKPGVQIY 481
 DB 444 NTVVPTKRSQIFSTASDNPVTYIKVYGEERPLTKDNHLLCTPDLTGIPPAKPGVQIY 503
 OY 482 TPEIDVNGILRYAEDK-CTGKNKITTITNONRLTPEIERVYNDAEKRAEEDKTLKER 540
 DB 504 TPEVDANGVLTVAADKSGKPEKLVTKNDGRUSEDIERYVKEEERAEEDKTLKER 563
 OY 541 IDTRNELESYAVSLKNOIGDKELGCKLSDEKMEKAVEEIKEMLESH-ODADIEFK 599
 DB 564 IEARNLTENYAVSLKNOIGDKELGCKLSDEKMEKAVEEIKEMLESH-ODADIEFK 623
 OY 600 AKKKELEIVOPITISKLYGSA--GPPPTGEEDTAELHHHHH 639
 DB 624 DOROKLDVAVHPIITOKLY-SEGAGDADEED 652

RESULT 6
 US-09-513-783A-174
 Sequence 174, Application US/09513783A
 Patent No. 6416959

GENERAL INFORMATION:
 APPLICANT: Giuliano, Kenneth A.
 APPLICANT: Kapur, Ravi
 TITLE OF INVENTION: A System for Cell Based Screening
 FILE REFERENCE: 97-022-LI
 CURRENT APPLICATION NUMBER: US/09/513,783A
 CURRENT FILING DATE: 2000-02-25
 NUMBER OF SEQ ID NOS: 180
 SOFTWARE: Patentln Ver. 2.0
 SEQ ID NO 174
 LENGTH: 890
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence: GFP-HSC70

US-09-513-783A-174

Query Match 63.6%; Score 2083; DB 4; Length 890;
 Best Local Similarity 66.1%; Pred. No. 6.4e-159;
 Matches 410; Conservative 97; Mismatches 107; Indels 6; Gaps 5;

OY 10 GTVAGIDGCTTSCVGFKNRVEIILANDOGNRITPSYAFTEPEERLIGDAKNDLTSN 69
 DB 248 GPAVAGIDGCTTSCVGFKNRVEIILANDOGNRITPSYAFTEPEERLIGDAKNDLTSN 306
 OY 70 PENVTPEAKRLIGRTWMDPSVODIKFLPEKVEKTKPYIOVDIGGQTKTAPREISA 129
 DB 307 PNTVPEAKRLIGRTWMDPSVODIKFLPEKVEKTKPYIOVDIGGQTKTAPREISA 365
 OY 130 MVLTKMEIAYLGKRVTHAVTVPAYFNDQROATKAGTLAGLWNRRI 189
 DB 366 MVLTKMEIAYLGKRVTHAVTVPAYFNDQROATKAGTLAGLWNRRI 241
 OY 190 AYGLDKREG-EKNILVFDLGGGTFDVSLITDNGVEFVAVTNGDTHLGGEDPDRVNEH 248
 DB 426 AYGLDKRVGAERNVLFVDLGGGTFDVSLITDNGVEFVAVTNGDTHLGGEDPDRVNEH 485
 OY 249 IKLYKKTKGKDYRKDNRAVOKLRREVERAKARALLSSQQAITELESYEEEDDS 308

FILING DATE: 15-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/089,997
FILING DATE: 06-JUL-1993
ATTORNEY/AGENT INFORMATION:
NAME: DIG1910, Frank S.
REGISTRATION NUMBER: 31,346
REFERENCE/DOCKET NUMBER: 8646
TELECOMMUNICATION INFORMATION:
TELEPHONE: 516-742-4343
TELEFAX: 516-742-4366
TELEX: 230 901 SANS UR
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 679 amino acids
TYPE: amino acids
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-441-139-5

Query Match 63.1% Score 2065.5; DB 1; Length 679;
Best Local Similarity 65.4%; Pred. No. 1,1e-157;
Matches 403; Conservative 90; Mismatches 118; Indels 5; Gaps 4;

QY 7 EDVGVTVGIDLTCTSCVGRKNGRVELIANDOGNRTPTSYAFPEGERLIGDAAKNQL 66
DB 48 EDGVTVGIDLTCTSCVGRKNGRVELIANDOGNRTPTSYAFPEGERLIGDAAKNQA 106
QY 67 TSNPENTVADARRLIGRTWNPVQODIKLPFEKVEKTKPYIQVDIGGGOTKTFAPPE 126
DB 107 ASNPKRTIFEDIRLIGLQYNDPTVQORDKHLPTVYVNGKRPVEVTA-KGEKKEPTPEE 165
QY 127 ISAMVTKKKETAEAYLGKKTTHAVVTPYAFNQAQATKDKTAGLNVARIINEPRA 186
DB 166 VSGMILGKKKQIAEYDLKRTTHAVVTPYAFNQAQATKDKTAGLNVARIINEPRA 225
QY 187 AAIANGLDKREGEKNIIVFDLGGTFFDVSLLTIDNGVEEVATNGDTHLGEGEDFOQRVE 246
DB 226 AAIANGLDKTEDEHGIIVYDGGGTFDVSLLTIDNGVEEVATNGDTHLGEGEDFOQKIVR 285
QY 247 HFATLTKKTKGDKVOKORAVOKLRREVEKAKKRALSSQHOARIEISPEEGEDSEETLR 306
DB 286 HFAQLPQKHHLDYTKNKNAMAKLREKREKRSLSQSTRLEIDSFNGIDFSETLIR 345
QY 307 AKPEELNMDLFRSTMKPVQKYLESDLKKSDIDEIVLVGSTRIPKIQOLVKEFNGKEP 366
DB 346 AKPEELNMLALFKRTLKPVKYLKDSGLQKEDIDIVLVGSTRIPVQOLLEKFFNGKKA 405
QY 367 SKGINDEAVAGAAVQAGVLSGDQDTGDLVDVCPDLTGLTETGVGVMTKLIRPTVTP 426
DB 406 SKGINDEAVAGAAVQAGVLSGEGVEDIVLDVNMVLTGLTETGVGVMTPLKKNRTAIP 465
QY 427 TKKSQTFSTASDNQTYIYKYEGERPLTDNHLGLFDLTGPPAPRGVPOLEVFEED 486
DB 466 TKKSQTFSTAVDNQAAVRIQYEEGERAMVKDNMLGLNFELSDIRAPRGVPOLEVFEED 525
QY 487 VNGILVTAEDKGTGNKKITITNDQNLTPPEERAVNDAKFAEEDKKLERIDTRRE 546
DB 526 ANGLIVASTDKDGTGKSEITIANDKGRSLDODIDRNVAAEKYAAEDKAFKASARNT 585
QY 547 LESYATSLKNOIGDKELGKLSDEKTEKMAVEETIENLESHOD-ADIEDPKAKKKEL 605
DB 586 FEFEVIVYKNSVNG--ELAEIMDEDDKETVLNVNESLEWLEDNDSVAAEDPEEKMAFS 643
QY 606 FEIVPQIISKLYGSAG 621
DB 644 KESVEPIILAKASASOG 659

RESULT 9
US-08-797-358B-3

Sequence 3, Application us/08797358B
Patent No. 6268478
GENERAL INFORMATION:
APPLICANT: Adams, John
TITLE OF INVENTION: INTRACELLULAR VITAMIN D BINDING PROTEIN
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Campbell & Flores LLP
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: United States
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/797,358B
FILING DATE: 11-Feb-1997
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/011,491
FILING DATE: 12-FEB-1996
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-CE 3165
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 643 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-08-797-358B-3

Query Match 59.2% Score 1938; DB 3; Length 643;
Best Local Similarity 61.7%; Pred. No. 1,8e-147;
Matches 379; Conservative 107; Mismatches 122; Indels 6; Gaps 5;

QY 13 VGIDLTCTSCVGRKNGRVELIANDOGNRTPTSYAFPEGERLIGDAAKNQLTSPNPEN 72
DB 9 VGIDLTCTSCVGRKNGRVELIANDOGNRTPTSYAFPEGERLIGDAAKNQLTSPNPEN 67
QY 73 TVEFDARLIGRTWNPVQODIKLPFEKVEKTKPYIQVDIGGGOTKTFAPPEISAMVL 132
DB 68 TVEFDARLIGRTWNPVQODIKLPFEKVEKTKPYIQVDIGGGOTKTFAPPEISAMVL 126
QY 133 TKKKEPTEAEYLGKKTTHAVVTPYAFNQAQATKDKTAGLNVARIINEPRAAIATG 192
DB 127 SKKKEPTEAEYLGKKTTHAVVTPYAFNQAQATKDKTAGLNVARIINEPRAAIATG 186
QY 193 LDKR-EGEENIIVFDLGGTFFDVSLLTIDNGVEEVATNGDTHLGEGEDFOQRMEHFIKL 251
DB 187 LDKR-EGEENIIVFDLGGTFFDVSLLTIDNGVEEVATNGDTHLGEGEDFOQRMEHFIKL 246
QY 252 YKKKTKDYKRNRAVOKLRREVEKAKKRALSSQHOARIEISPEEGEDSEETLTRAKPEE 311
DB 247 FRKRRKDLTSMKRRALRRIRACERAKRTYSSSTQATLEIDSLFEGVDFTSTTRARFEE 306
QY 312 LNMDFRSTMKPVQKYLESDLKKSDIDEIVLVGSTRIPKIQOLVKEFNGKEPSEGIN 371
DB 307 LNSDFRSTLPEVEKGLADKAKXIHVDVVLVGVSGSTRIRVQKLLDQDFNGELMKSIN 366
QY 372 PDEAVAYGAAGVAGVLSGD--QOTGDLVLDVCPDLTGLTETGVGVMTKLIRPTVTPK 429
DB 367 PDEAVAYGAAGVAGVAGVLSGD--QOTGDLVLDVCPDLTGLTETGVGVMTKLIRPTVTPK 426


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OY 129 AMLTMMKEAEVAYLCKKHTAHVYVYVAFNDADROKPTAGTJAGLNMWRITNEPTAA 188
Db AMLTMMKEAEVAYLCKKHTAHVYVYVAFNDADROKPTAGTJAGLNMWRITNEPTAA 188
OY 98 AMLTMMKEAEVAYLCKKHTAHVYVYVAFNDADROKPTAGTJAGLNMWRITNEPTAA 157
Db AMLTMMKEAEVAYLCKKHTAHVYVYVAFNDADROKPTAGTJAGLNMWRITNEPTAA 157
OY 189 IAYGLDKREGCKNIYLFVDJGGCTFEDVSLTITDNGVFEVYVATNGDTHLGSEDFDQVMEHF 248
Db IAYGLDKREGCKNIYLFVDJGGCTFEDVSLTITDNGVFEVYVATNGDTHLGSEDFDQVMEHF 248
OY 158 IAYGLDKTEFDQVLFVFDJGGCTFEDVSLTITDNGVFEVYVATNGDTHLGSEDFDQVMEHF 217
Db IAYGLDKTEFDQVLFVFDJGGCTFEDVSLTITDNGVFEVYVATNGDTHLGSEDFDQVMEHF 217
OY 249 IKIYKKKKTKDVKRKNRAVOKIAREVEKAKALSSQMARIEISFEGED----FSEFL 304
Db IKIYKKKKTKDVKRKNRAVOKIAREVEKAKALSSQMARIEISFEGED----FSEFL 304
OY 218 VSEFEKKENGVDLSQDMMALQRLDKAEFAKKDLGVSQOTQISLPIFISAGBNPLHLEISL 277
Db VSEFEKKENGVDLSQDMMALQRLDKAEFAKKDLGVSQOTQISLPIFISAGBNPLHLEISL 277
OY 305 TRAKFEELNMNDLFRRSTMPKPVOKYLEDSDLKSSDIDEILVVGCGSTRIPKIOQLKEFPFNK 364
Db TRAKFEELNMNDLFRRSTMPKPVOKYLEDSDLKSSDIDEILVVGCGSTRIPKIOQLKEFPFNK 364
OY 278 TRSKFEELNDSLJLKKMEPTROALKDAGLSHSEIDEVILVVGSTRIPAVGEAVKKEL -GX 336
Db TRSKFEELNDSLJLKKMEPTROALKDAGLSHSEIDEVILVVGSTRIPAVGEAVKKEL -GX 336
OY 365 EBSRGJNPDEAAVYCAAVQAVYLSQDOTGDLVLLDVCPLTLGIEVGYMKLIRNTV 424
Db EBSRGJNPDEAAVYCAAVQAVYLSQDOTGDLVLLDVCPLTLGIEVGYMKLIRNTV 424
OY 337 EPRKGVNAPREVYAMGAALDQAVYITE -BVKQVVLIDVTPSLGIEIGSGMNLIRNFT 394
Db EPRKGVNAPREVYAMGAALDQAVYITE -BVKQVVLIDVTPSLGIEIGSGMNLIRNFT 394
OY 425 VPRKKSQIESTASDNQPYTIKVYGEPRPLKNDHLLGTPOLCITIPAPRGVQIETFE 484
Db VPRKKSQIESTASDNQPYTIKVYGEPRPLKNDHLLGTPOLCITIPAPRGVQIETFE 484
OY 395 IPRSKQGVYSTADNDQNPANDIHVLOGEPRPMASDKTLQROPLTDIPAPRGVQIETFD 454
Db IPRSKQGVYSTADNDQNPANDIHVLOGEPRPMASDKTLQROPLTDIPAPRGVQIETFD 454
OY 485 IDVNGILRTVAEDCKTGCKNNKITTITNDQNRLLPEBIEPMVNDAEKFAEDDKLKEBIDTR 544
Db IDVNGILRTVAEDCKTGCKNNKITTITNDQNRLLPEBIEPMVNDAEKFAEDDKLKEBIDTR 544
OY 455 IDKNGJLVNATJAKDLGKNEQNTTIOSSSS -LSDEIDIRMYKDAEENAEADKKRREVEDJR 513
Db IDKNGJLVNATJAKDLGKNEQNTTIOSSSS -LSDEIDIRMYKDAEENAEADKKRREVEDJR 513
OY 545 NKELESYVSLKNDIGKREKLGKLSSEBKEHMEKNAVEKIEITMLESK -QADIDIFPAKK 603
Db NKELESYVSLKNDIGKREKLGKLSSEBKEHMEKNAVEKIEITMLESK -QADIDIFPAKK 603
OY 514 NENDSLVFOVEKTVND--LGENIDDECK----KNAEKKDALKTALEGEDIDDIKAKKE 566
Db NENDSLVFOVEKTVND--LGENIDDECK----KNAEKKDALKTALEGEDIDDIKAKKE 566
OY 604 ELEBIVOPILSKYGA-----GPPPTGEEDT 630
Db ELEBIVOPILSKYGA-----GPPPTGEEDT 630
OY 567 ELEKVIQELSAKVEYEQAOAOQOGEDEGSDS 599
Db ELEKVIQELSAKVEYEQAOAOQOGEDEGSDS 599

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[illegible][illegible]

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RESULT 13
US-09-207-388-16
; Sequence 16; Application US/09207388
; Patent No. 6497880
; GENERAL INFORMATION:
; APPLICANT: Misiewicz, Jan
; TITLE OF INVENTION: HEAT SHOCK GENES AND PROTEINS FROM
; TITLE OF INVENTION: NEISSERIA MENINGITIDIS, CANDIDA GLABRATA AND ASPERGILLUS
; TITLE OF INVENTION: FUMIGATUS
; FILE REFERENCE: 870109, 411
; CURRENT APPLICATION NUMBER: US/09/207,388
; CURRENT FILING DATE: 1998-12-08
; NUMBER OF SEQ ID NOS: 102
; SOFTWARE: FASTED for Windows Version 3.0
; SEQ ID NO 16
; LENGTH: 662
; TYPE: PRN
; ORGANISM: Neisseria meningitidis
US-09-207-388-16

Query Match      45.7%; Score 1495; DB 4; Length 662;
Best Local Similarity 50.6%; Pred. No. 8,1e-112;
Matches 320; Conservative 108; Mismatches 175; Indels 30; Gaps 12.

12 VCGIDGTTTCGCGVCKNGREVEIIANDGNGRTPTSVYAFPECEGRLICDAAKNQLTNSPE 71
VIGIDGTTTNSCLAISENCGQTKVIENAGCATPTSVYALIDGSELLVGAAPARQAVTNAK 83
24 VIGIDGTTTNSCLAISENCGQTKVIENAGCATPTSVYALIDGSELLVGAAPARQAVTNAK 83

72 NYVEDAKRLIGRTWDPVSQDDIKLFPKVEEKT-KPTVQVDIGCGGQTKTFAPEISAM 130
NYTAAKRLIGHFEDKEQVORDIESMPEELIKANNGDAMWK-----AQGEKELSPQISHE 138
84 NYTAAKRLIGHFEDKEQVORDIESMPEELIKANNGDAMWK-----AQGEKELSPQISHE 138

131 VLRKMKETAEAYGKKRVTAHVTVPAVYNDAAQROATKDACTAGLVNMRILNEPTAAATA 190
VLRKMKETAEAYGKKRVTAHVTVPAVYNDAAQROATKDACTAGLVNMRILNEPTAAATA 190
139 VLRKMKETAEAYGKKRVTAHVTVPAVYNDAAQROATKDACTAGLVNMRILNEPTAAATA 198
VLRKMKETAEAYGKKRVTAHVTVPAVYNDAAQROATKDACTAGLVNMRILNEPTAAATA 198
191 YGLDKREG-EKNILVFDLGGCTFDVSLITON---GVFEVATNDDTHLGGEDPDQRYM 245
YGLDKREG-EKNILVFDLGGCTFDVSLITON---GVFEVATNDDTHLGGEDPDQRYM 245
199 FGMDGCKNDRKAVAYADLGGCTFDVSLITON---GVFEVATNDDTHLGGEDPDQRYM 258
FGMDGCKNDRKAVAYADLGGCTFDVSLITON---GVFEVATNDDTHLGGEDPDQRYM 258

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Db 314 KHLNWKVSRKLESIVEDLVQRTIEPCRTALKDAGLDVSDIHEVILVGCOTRMPLOYKTV 373
QY 358 KEFENGKEPESRCINPDEAVAYGAOVQAGVLSGDDDTGDLVLDVCPPLTGIEYGVMTK 417
Db 374 AEEF-GKEARKDVNPDEAVAGAAIGAVLAG--DVKDVLLDVTPLTGLIETLGVMTG 430
QY 418 LIPRNVVPTKKSQIFSTASDNQPTVTIKYEGEERPLTKDNHLLGTFDLTGIPAPRGYP 477
Db 431 LIEKNTTIPTKKSQVSTADNOCNAVTHVLOGERKQAQNKSLGKFDLADIPAPRGYP 490
QY 478 QIEVTFEIDVNGILNVTAEKGTGKNKKITITNDQNLTPETIERVYNDAEKFAEDKKL 537
Db 491 QIEVTFEIDVNGILNVTAEKGTGKNKKITITNDQNLTPETIERVYNDAEKFAEDKKL 549
QY 538 KERIDTRNELESYAYSLKNOIGDEKELGKLSSEDEKTEMKAVEEKTWULESHODADIED 597
Db 550 BELAARNOGDALVHATRKMI---TEAGDKATADKATIEKALGELEAAVKGDDKAIEF- 605
QY 598 FKAKKKELEIYQPIISKLYGSAG---PPTGREDTA 631
Db 606 --AKMNAISQASTPLAQKMYAEQAQGGEDAPQGEQAKA 641

Search completed: September 30, 2003, 09:48:55
Job time : 18.5731 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - protein search, using sw model

Run on: September 30, 2003, 09:47:38 ; Search time 27.1274 Seconds
(without alignments)
3564.123 Million cell updates/sec

Title: US-09-806-955A-1
Perfect score: 3273
Sequence: 1 MEEDKEDVGVGIDLGTT.....AGPPTGEEDTAELHHHHH 639

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 566894 seqs, 151307093 residues

Total number of hits satisfying chosen parameters: 566894

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Published Applications_AA:*

- 1: /cgn2_6/prodata/2/pubppa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/prodata/2/pubppa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/prodata/2/pubppa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/prodata/2/pubppa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/prodata/2/pubppa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/prodata/2/pubppa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/prodata/2/pubppa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/prodata/2/pubppa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/prodata/2/pubppa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/prodata/2/pubppa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/prodata/2/pubppa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/prodata/2/pubppa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/prodata/2/pubppa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/prodata/2/pubppa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/prodata/2/pubppa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/prodata/2/pubppa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/prodata/2/pubppa/US60_NEW_PUBCOMB.pep.*
- 18: /cgn2_6/prodata/2/pubppa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	3216	98.3	654	10	US-09-919-172-54
2	3216	98.3	654	11	US-09-919-039-260
3	3182.5	97.2	653	9	US-09-759-010-2
4	2313.5	70.7	655	14	US-10-117-641-36
5	2313.5	70.7	655	15	US-10-235-113-36
6	2267.5	68.3	672	15	US-10-128-714-3107
7	2254.5	68.9	672	15	US-10-128-714-8107
8	2083	63.6	646	9	US-09-759-010-4
9	2083	63.6	646	10	US-09-870-759-43
10	2083	63.6	646	11	US-09-935-642-16
11	2083	63.6	646	11	US-09-919-039-11
12	2083	63.6	646	12	US-09-751-708A-43
13	2083	63.6	890	15	US-10-100-957A-174
14	2039.5	62.3	641	9	US-09-759-010-3
15	2039.5	62.3	641	11	US-09-935-642-1

16	2039.5	62.3	641	11	US-09-919-039-146	Sequence 146, App
17	2033.5	62.1	649	12	US-10-259-165-214	Sequence 214, App
18	2033.5	62.1	649	12	US-10-259-165-350	Sequence 350, App
19	2030	62.0	651	14	US-10-108-605-75	Sequence 75, App1
20	2028	62.0	651	11	US-09-919-039-73	Sequence 73, App1
21	2020	61.7	644	12	US-10-316-253-97	Sequence 97, App1
22	2019.5	61.7	642	15	US-10-132-556A-2	Sequence 2, App1
23	2014	61.5	642	10	US-09-761-534A-10	Sequence 10, App1
24	2011	61.4	641	12	US-10-316-253-28	Sequence 28, App1
25	1999.5	61.1	643	11	US-09-847-208-61	Sequence 61, App1
26	1997.5	61.0	662	15	US-10-234-432-75	Sequence 75, App1
27	1997.5	61.0	678	15	US-10-234-432-38	Sequence 38, App1
28	1978	60.4	643	11	US-09-919-039-204	Sequence 204, App
29	1974	60.3	665	9	US-09-925-302-724	Sequence 724, App
30	1959	59.9	653	11	US-09-733-179A-11	Sequence 11, App1
31	1927.5	58.9	651	15	US-10-234-432-77	Sequence 77, App1
32	1924.5	58.8	649	15	US-10-234-432-33	Sequence 33, App1
33	1860.5	56.8	628	15	US-10-234-432-35	Sequence 35, App1
34	1716	52.4	641	15	US-10-234-432-37	Sequence 37, App1
35	1502	45.9	610	9	US-09-815-242-5559	Sequence 5559, App
36	1502	45.9	618	9	US-09-815-242-12567	Sequence 12567, A
37	1502	45.9	618	9	US-09-815-242-12970	Sequence 12970, A
38	1502	45.9	638	9	US-09-815-242-10015	Sequence 10015, A
39	1502	45.9	638	9	US-09-815-242-13713	Sequence 13713, A
40	1502	45.9	638	15	US-10-181-654-10	Sequence 10, App1
41	1501	45.9	637	9	US-09-759-010-1	Sequence 1, App1
42	1495	45.7	662	15	US-10-269-557-15	Sequence 15, App1
43	1495	45.7	642	15	US-10-269-557-16	Sequence 16, App1
44	1492	45.6	642	15	US-10-269-557-13	Sequence 13, App1
45	1491	45.6	637	9	US-09-815-242-12058	Sequence 12058, A

ALIGNMENTS

RESULT 1	US-09-919-172-54	Application US/09919172
Sequence 54, App1	US-09-919-172-54	Sequence 54, App1
Patent No. US20020119463A1	US-09-919-172-54	Patent No. US20020119463A1
GENERAL INFORMATION:	GENERAL INFORMATION:	GENERAL INFORMATION:
APPLICANT: Turner, Christopher M.	APPLICANT: Turner, Christopher M.	APPLICANT: Turner, Christopher M.
FILE OF INVENTION: PROSTATE CANCER MARKERS	FILE OF INVENTION: PROSTATE CANCER MARKERS	FILE OF INVENTION: PROSTATE CANCER MARKERS
CURRENT FILING DATE: 2001-07-30	CURRENT FILING DATE: 2001-07-30	CURRENT FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/222,469	PRIOR APPLICATION NUMBER: 60/222,469	PRIOR APPLICATION NUMBER: 60/222,469
NUMBER OF SEQ. ID NOS: 102	NUMBER OF SEQ. ID NOS: 102	NUMBER OF SEQ. ID NOS: 102
SOFTWARE: PERL Program	SOFTWARE: PERL Program	SOFTWARE: PERL Program
SEQ ID NO 54	SEQ ID NO 54	SEQ ID NO 54
LENGTH: 654	LENGTH: 654	LENGTH: 654
TYPE: PRT	TYPE: PRT	TYPE: PRT
ORGANISM: Homo sapiens	ORGANISM: Homo sapiens	ORGANISM: Homo sapiens
FEATURE:	FEATURE:	FEATURE:
NAME/KEY: misc.feature	NAME/KEY: misc.feature	NAME/KEY: misc.feature
OTHER INFORMATION: Incyte ID No. US20020119463A1 2993696CD1	OTHER INFORMATION: Incyte ID No. US20020119463A1 2993696CD1	OTHER INFORMATION: Incyte ID No. US20020119463A1 2993696CD1
US-09-919-172-54	US-09-919-172-54	US-09-919-172-54
Query Match	98.3% ; Score 3216; DB 10; Length 654;	Query Match
Best local Similarity 100.0% ; Pred. No. 1.4e-222;	Best local Similarity 100.0% ; Pred. No. 1.4e-222;	Best local Similarity 100.0% ; Pred. No. 1.4e-222;
Matches 631; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	Matches 631; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	Matches 631; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY	2 EEDKEDVGVGIDLGTTGCGVFNKGRHEIANDOGRRITPSVATTPGEBRLGDA 61	Sequence 146, App
DB	20 EEDKEDVGVGIDLGTTGCGVFNKGRHEIANDOGRRITPSVATTPGEBRLGDA 79	Sequence 214, App
QY	62 ANKOLTSNENFVFDKRLIGRTWNDSVOODIKFLPKVVEKRTKPYIOVDIGGQRT 121	Sequence 350, App
DB	80 ANKOLTSNENFVFDKRLIGRTWNDSVOODIKFLPKVVEKRTKPYIOVDIGGQRT 139	Sequence 75, App1
QY	122 PAPERISAVLVTKMETAEATIGKKVTHAVTVAPYFNDORATKDATIGLWMMRI 181	Sequence 73, App1

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Db 140 FAREEISAVLTKMKETAAYLGKKVTHAVTVPAFYFNDAQRQATKDAGTIAGLNMRII 199
Oy 182 NEPTAAAIAYGLDKREGEKNILVFDLGGGTFDVSLLTIDNGVEEVATNDTHLGGEDFD 241
Db 200 NEPTAAAIAYGLDKREGEKNILVFDLGGGTFDVSLLTIDNGVEEVATNDTHLGGEDFD 259
Oy 242 QRYVEHFILKYKKTKGDKVNRKDNRAVOKLREVEKARALSSOQARIETIESFEYGEDFS 301
Db 260 QRYVEHFILKYKKTKGDKVNRKDNRAVOKLREVEKARALSSOQARIETIESFEYGEDFS 319
Oy 302 ETLTRAKFEELNMDLPRSTMKPVOKVLEDSPLKSSDIDEIVLGGSTRIPKIQDLKKEFF 361
Db 320 ETLTRAKFEELNMDLPRSTMKPVOKVLEDSPLKSSDIDEIVLGGSTRIPKIQDLKKEFF 379
Oy 362 NGKPSRGINPDEAAVAGAAVAGVLSGDQDTGDLVLLDVCPLTLGIEIVGVMTKLIR 421
Db 380 NGKPSRGINPDEAAVAGAAVAGVLSGDQDTGDLVLLDVCPLTLGIEIVGVMTKLIR 439
Oy 422 NTVPPTKKSQIFSTASDNPPTVITKYEGSERPLTKDNHLLGTEDLGIPAPRGVQIEV 481
Db 440 NTVPPTKKSQIFSTASDNPPTVITKYEGSERPLTKDNHLLGTEDLGIPAPRGVQIEV 499
Oy 482 TFEIDVNGILRYTAEDKGTGNKNKITTNDONRLTPREIERMVNDAKFAEDDKLKERI 541
Db 500 TFEIDVNGILRYTAEDKGTGNKNKITTNDONRLTPREIERMVNDAKFAEDDKLKERI 559
Oy 542 DTNNELESYAYSLKNOIGDKREKLGKLSSEDKETMEKAVEKEIEMLESODADIEDFKAK 601
Db 560 DTNNELESYAYSLKNOIGDKREKLGKLSSEDKETMEKAVEKEIEMLESODADIEDFKAK 619
Oy 602 KKELEIYQPIISKLYGSAGPPTEEDTAE 632
Db 620 KKELEIYQPIISKLYGSAGPPTEEDTAE 650

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RESULT 2

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US-09-919-039-260
; Sequence 260, Application US/09919039
; Publication No. US20030108871A1
; GENERAL INFORMATION:
; APPLICANT: Kaseer, Matthew R.
; TITLE OF INVENTION: GENES EXPRESSED IN TREATED HUMAN C3A LIVER CELL CULTURES
; FILE REFERENCE: PA-0035 US
; CURRENT APPLICATION NUMBER: US/09/919,039
; PRIOR FILING DATE: 2002-09-09
; PRIOR FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 401
; SOFTWARE: PERL Program
; SEQ ID NO 260
; LENGTH: 654
; TYPE: PR
; ORGANISM: Homo sapiens
; NAME/KEY: misc-feature
; OTHER INFORMATION: Incyte ID No. US20030108871A1 2993696CD1
US-09-919-039-260

```

Query Match 98.3%; Score 3216; DB 11; Length 654;

Best Local Similarity 100.0%; Pred. No. 1,4e-222;

Matches 631; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

Oy 2 EEDKKEDVGVVIGIDGTYTSCVGVFKNGRVEIIANDGGRITPSSYAFPEGERLIGDA 61
Db 20 EEDKKEDVGVVIGIDGTYTSCVGVFKNGRVEIIANDGGRITPSSYAFPEGERLIGDA 79
Oy 62 AKNOLSNPENTVFDKRLIGRTWNPVSODIKFLPKVYEKTKRYIOVDIGGGQTKT 121
Db 80 AKNOLSNPENTVFDKRLIGRTWNPVSODIKFLPKVYEKTKRYIOVDIGGGQTKT 139
Oy 122 FAREEISAVLTKMKETAAYLGKKVTHAVTVPAFYFNDAQRQATKDAGTIAGLNMRII 181
Db 140 FAREEISAVLTKMKETAAYLGKKVTHAVTVPAFYFNDAQRQATKDAGTIAGLNMRII 199

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Oy 182 NEPTAAAIAYGLDKREGEKNILVFDLGGGTFDVSLLTIDNGVEEVATNDTHLGGEDFD 241
Db 200 NEPTAAAIAYGLDKREGEKNILVFDLGGGTFDVSLLTIDNGVEEVATNDTHLGGEDFD 259
Oy 242 QRYVEHFILKYKKTKGDKVNRKDNRAVOKLREVEKARALSSOQARIETIESFEYGEDFS 301
Db 260 QRYVEHFILKYKKTKGDKVNRKDNRAVOKLREVEKARALSSOQARIETIESFEYGEDFS 319
Oy 302 ETLTRAKFEELNMDLPRSTMKPVOKVLEDSPLKSSDIDEIVLGGSTRIPKIQDLKKEFF 361
Db 320 ETLTRAKFEELNMDLPRSTMKPVOKVLEDSPLKSSDIDEIVLGGSTRIPKIQDLKKEFF 379
Oy 362 NGKPSRGINPDEAAVAGAAVAGVLSGDQDTGDLVLLDVCPLTLGIEIVGVMTKLIR 421
Db 380 NGKPSRGINPDEAAVAGAAVAGVLSGDQDTGDLVLLDVCPLTLGIEIVGVMTKLIR 439
Oy 422 NTVPPTKKSQIFSTASDNPPTVITKYEGSERPLTKDNHLLGTEDLGIPAPRGVQIEV 481
Db 440 NTVPPTKKSQIFSTASDNPPTVITKYEGSERPLTKDNHLLGTEDLGIPAPRGVQIEV 499
Oy 482 TFEIDVNGILRYTAEDKGTGNKNKITTNDONRLTPREIERMVNDAKFAEDDKLKERI 541
Db 500 TFEIDVNGILRYTAEDKGTGNKNKITTNDONRLTPREIERMVNDAKFAEDDKLKERI 559
Oy 542 DTNNELESYAYSLKNOIGDKREKLGKLSSEDKETMEKAVEKEIEMLESODADIEDFKAK 601
Db 560 DTNNELESYAYSLKNOIGDKREKLGKLSSEDKETMEKAVEKEIEMLESODADIEDFKAK 619
Oy 602 KKELEIYQPIISKLYGSAGPPTEEDTAE 632
Db 620 KKELEIYQPIISKLYGSAGPPTEEDTAE 650

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RESULT 3

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US-09-759-010-2
; Sequence 2, Application US/09759010
; Patent No. US20010034042A1
; GENERAL INFORMATION:
; APPLICANT: Srivastava, Pramod K.
; TITLE OF INVENTION: COMPLEXES OF PEPTIDE BINDING FRAGMENTS OF HEAT-SHOCK
; FILE REFERENCE: 8449-135
; CURRENT APPLICATION NUMBER: US/09/759,010
; PRIOR FILING DATE: 2001-01-12
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 653
; TYPE: PR
; ORGANISM: Homo sapiens
US-09-759-010-2

```

Query Match 97.2%; Score 3182.5; DB 9; Length 653;

Best Local Similarity 99.4%; Pred. No. 3.5e-220;

Matches 627; Conservative 0; Mismatches 3; Indels 1; Gaps 1;

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Oy 2 EEDKKEDVGVVIGIDGTYTSCVGVFKNGRVEIIANDGGRITPSSYAFPEGERLIGDA 61
Db 20 EEDKKEDVGVVIGIDGTYTSCVGVFKNGRVEIIANDGGRITPSSYAFPEGERLIGDA 79
Oy 62 AKNOLSNPENTVFDKRLIGRTWNPVSODIKFLPKVYEKTKRYIOVDIGGGQTKT 121
Db 80 AKNOLSNPENTVFDKRLIGRTWNPVSODIKFLPKVYEKTKRYIOVDIGGGQTKT 139
Oy 122 FAREEISAVLTKMKETAAYLGKKVTHAVTVPAFYFNDAQRQATKDAGTIAGLNMRII 181
Db 140 FAREEISAVLTKMKETAAYLGKKVTHAVTVPAFYFNDAQRQATKDAGTIAGLNMRII 199
Oy 182 NEPTAAAIAYGLDKREGEKNILVFDLGGGTFDVSLLTIDNGVEEVATNDTHLGGEDFD 241
Db 200 NEPTAAAIAYGLDKREGEKNILVFDLGGGTFDVSLLTIDNGVEEVATNDTHLGGEDFD 259

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QY 242 QRVMEHFKLYKKKTGKDVRRKDNRAVOKLREVEKARALSSOHQARIEISFYEGEDFS 301
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 260 QRVMEHFKLYKKKTGKDVRRKDNRAVOKLREVEKARALSSOHQARIEISFYEGEDFS 318
QY 302 ETLTRAKEEELNMDLFRSTKMPVOKVLESDLKSDIDEIVLGGSTRIPKIQOLVKKEFF 361
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 319 ETLTRAKEEELNMDLFRSTKMPVOKVLESDLKSDIDEIVLGGSTRIPKIQOLVKKEFF 378
QY 362 NGKESRGINPDEAVAAAGAAVAGVLSGDDPTDVLVLCVPLTIGIEYGVGMKLLPR 421
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 379 NGKESRGINPDEAVAAAGAAVAGVLSGDDPTDVLVLCVPLTIGIEYGVGMKLLPR 438
QY 422 NTVPVPTKKSQIFSTASDNOPVTYIKYEGEERPLTKDNHLLGTFEDLTGIPAPRGVPOI 481
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 439 NTVPVPTKKSQIFSTASDNOPVTYIKYEGEERPLTKDNHLLGTFEDLTGIPAPRGVPOI 498
QY 482 TFEIDVNGILVTAEDGCKMKNKITTNDQNLTPPEIERVNADEKFAEDKLLKRI 541
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 499 TFEIDVNGILVTAEDGCKMKNKITTNDQNLTPPEIERVNADEKFAEDKLLKRI 558
QY 542 DTRNELESYASLKNQIGDKELGKLSSEDEKEMKAVEEKIEMLESODADIEDFRK 601
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 559 DTRNELESYASLKNQIGDKELGKLSSEDEKEMKAVEEKIEMLESODADIEDFRK 618
QY 602 KKELEETVOPITISKLYSAGPPPTGEEDTAE 632
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 619 KKELEETVOPITISKLYSAGPPPTGEEDTAE 649

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RESULT 4
US-10-117-641-36
; Sequence 36, Application US/10117641
; Publication No. US20020194640A1
; GENERAL INFORMATION:
; APPLICANT: Mista, Santosh et al.
; TITLE OF INVENTION: PLANT PROMOTER DERIVED FROM LUMINAL BINDING PROTEIN GENE AND METH
; FILE OF INVENTION: ITS USE
; FILE REFERENCE: 62586
; CURRENT APPLICATION NUMBER: US/10/117,641
; PRIOR FILING DATE: 2002-04-03
; PRIOR APPLICATION NUMBER: 09/632,538
; PRIOR FILING DATE: 2000-08-04
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 36
; LENGTH: 655
; TYPE: PRN
; ORGANISM: Pseudotsuga menziesii
US-10-117-641-36

```

Query Match 70.7%; Score 2313.5; DB 14; Length 655;
 Best Local Similarity 70.1%; Pred. No. 8.9e-158;
 Matches 446; Conservative 89; Mismatches 96; Indels 5; Gaps 3;

```

QY 2 EEDKKEDGVTVVGGIDLTGTTSCVGVFNKGHVEIANDQGNRIPTSVAFTPGGERLIGDA 61
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 20 EBAAK-IGTVIGIDLTGTTSCVGVFNKGHVEIANDQGNRIPTSVAFTPGGERLIGDA 76
QY 62 AKNOLTSNPENTVPDARLLIGRTWNPDSVOODIKFLPKYVEKKTTPYIOVIGGQTKT 121
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 77 AKNOAAMPBERVDPVRLIGRKEDKEVQDKILPKYIVKNDGCPYIOVIRIGELTKV 136
QY 122 FAPETISAMVLTKMKETAAYLGKVTYHAVVTPAYFNDQROATKADAGTIGLVNARI 181
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 137 FSPETISAMILLKKKETAESYLGRKINDAVVTPAYFNDQROATKADAGTIGLVNARI 196
QY 182 NEPTAAAIAYGDKRBEKNTLVFDLGGTFDVSLTINDGVFEVATNGDHLGGEFDP 241
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 197 NEPTAAAIAYGDKRBEKNTLVFDLGGTFDVSLTINDGVFEVATNGDHLGGEFDP 256
QY 242 QRVMEHFKLYKKKTGKDVRRKDNRAVOKLREVEKARALSSOHQARIEISFYEGEDFS 301
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 257 QRVMEHFKLYKKKTGKDVRRKDNRAVOKLREVEKARALSSOHQARIEISFYEGEDFS 316

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QY 302 ETLTRAKEEELNMDLFRSTKMPVOKVLESDLKSDIDEIVLGGSTRIPKIQOLVKKEFF 361
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 317 ETLTRAKEEELNMDLFRSTKMPVOKVLESDLKSDIDEIVLGGSTRIPKIQOLVKKEFF 376
QY 362 NGKESRGINPDEAVAAAGAAVAGVLSGDDPTDVLVLCVPLTIGIEYGVGMKLLPR 419
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 377 NGKESRGINPDEAVAAAGAAVAGVLSGDDPTDVLVLCVPLTIGIEYGVGMKLLPR 436
QY 420 NTVPVPTKKSQIFSTASDNOPVTYIKYEGEERPLTKDNHLLGTFEDLTGIPAPRGVPOI 479
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 437 NTVPVPTKKSQIFSTASDNOPVTYIKYEGEERPLTKDNHLLGTFEDLTGIPAPRGVPOI 496
QY 480 EYTFEIDVNGILVTAEDGCKMKNKITTNDQNLTPPEIERVNADEKFAEDKLLKRI 539
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 497 EYTFEIDVNGILVTAEDGCKMKNKITTNDQNLTPPEIERVNADEKFAEDKLLKRI 556
QY 540 DTRNELESYASLKNQIGDKELGKLSSEDEKEMKAVEEKIEMLESODADIEDFRK 599
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 557 DTRNELESYASLKNQIGDKELGKLSSEDEKEMKAVEEKIEMLESODADIEDFRK 616
QY 600 AKKELEETVOPITISKLYSAGPPPTGEEDTAE 635
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 617 AKKELEETVOPITISKLYSAGPPPTGEEDTAE 652

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RESULT 5
US-10-235-113-36
; Sequence 36, Application US/10235113
; Publication No. US20030100748A1
; GENERAL INFORMATION:
; APPLICANT: Mista, Santosh et al.
; TITLE OF INVENTION: PLANT PROMOTER DERIVED FROM LUMINAL BINDING PROTEIN GENE AND M
; FILE OF INVENTION: ITS USE
; FILE REFERENCE: 62667
; CURRENT APPLICATION NUMBER: US/10/235,113
; PRIOR FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: 10/117,641
; PRIOR FILING DATE: 2002-04-03
; PRIOR APPLICATION NUMBER: 09/632,538
; PRIOR FILING DATE: 2000-08-04
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 36
; LENGTH: 655
; TYPE: PRN
; ORGANISM: Pseudotsuga menziesii
US-10-235-113-36

```

Query Match 70.7%; Score 2313.5; DB 15; Length 655;
 Best Local Similarity 70.1%; Pred. No. 8.9e-158;
 Matches 446; Conservative 89; Mismatches 96; Indels 5; Gaps 3;

```

QY 2 EEDKKEDGVTVVGGIDLTGTTSCVGVFNKGHVEIANDQGNRIPTSVAFTPGGERLIGDA 61
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 20 EBAAK-IGTVIGIDLTGTTSCVGVFNKGHVEIANDQGNRIPTSVAFTPGGERLIGDA 76
QY 62 AKNOLTSNPENTVPDARLLIGRTWNPDSVOODIKFLPKYVEKKTTPYIOVIGGQTKT 121
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 77 AKNOAAMPBERVDPVRLIGRKEDKEVQDKILPKYIVKNDGCPYIOVIRIGELTKV 136
QY 122 FAPETISAMVLTKMKETAAYLGKVTYHAVVTPAYFNDQROATKADAGTIGLVNARI 181
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 137 FSPETISAMILLKKKETAESYLGRKINDAVVTPAYFNDQROATKADAGTIGLVNARI 196
QY 182 NEPTAAAIAYGDKRBEKNTLVFDLGGTFDVSLTINDGVFEVATNGDHLGGEFDP 241
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 197 NEPTAAAIAYGDKRBEKNTLVFDLGGTFDVSLTINDGVFEVATNGDHLGGEFDP 256
QY 242 QRVMEHFKLYKKKTGKDVRRKDNRAVOKLREVEKARALSSOHQARIEISFYEGEDFS 301
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 257 QRVMEHFKLYKKKTGKDVRRKDNRAVOKLREVEKARALSSOHQARIEISFYEGEDFS 316

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OY      2  EEDK -KEDGVGVGIDLTGTTSCVGVFKNGRVEIIANDOGNRITPSPYAFTEGEEGRICD 60
      40  EEDSVQNGTGTIGIDLTGTTSCVGVONGKVEIIANDOGNRITPSPYAFTEDE -ERLVGD 98
OY      61  AAKNOLTSNDENTVPDAKRLIGRTWNDPSVQODIKELPFKYVEKTKPYIOVDIGGGOTK 120
Db      99  AAKNOYASNPTRTIRIIRLRIGRKFEDDKDYQKADKNPFYKVNKDGKGVKVEY -NKS PK 157
OY     121  TEAPEEISAMVLTMRKMETAPAYIGKVTNAVTVAYAVENDAROATKDACGTIAGLNMRI 180
Db     158  IFTPEEISAMVLTMRKMDLDEGTLGKVTNAVTVAYAVENDAROATKDACGTIAGLNLRV 217
OY     181  INEPTAAAIAYGLDKREGEKNILVFDLGGGTFPVSILITIDNGVEVAVATNGDTHLGGEDF 240
Db     218  VNEPTAAAIAYGLDKTGDEHNVLYVDLGGGTFVLSITIDNGVEFVLATAGDTHLGGEDF 277
OY     241  DORMEHEFIKTKKTKGKVRKDNRAVOKLREVEKAKRALSQHOARIEESYEEDE 300
Db     278  DHRMDFVQKTKKKNHNDVSKDLKAMGKLREVEKAKRTLSQSTRIBIESFHNGEDF 337
OY     301  SETLTFRAKFEELNMDLFRSTMKPVOKVLESDLSKSDIDEVLVGGSTRIPKIOOLYKEF 360
Db     338  SETLTFRAKFEELNMDLFRSTMKPVOKVLESDLSKSDIDEVLVGGSTRIPKIOOLYKEF 397
OY     361  FNGEPEKRGINPDEAVAYGAOAGVLSGDDOTDGLVLDVCPILGIEYGVMTKLIP 420
Db     398  FGGKASKGINPDEAVAYGAOAGVLSGEGTGVLDVPLDVLGIEYGVMTKLIP 457
OY     421  RNTVVPTRKKSQIFSTASDNOPVTIKVYEGEPLTKDNHLLGTDLTGIPRPGVQIE 480
Db     458  RNTVVPTRKKSQIFSTADNQPVTIQLQVDEGERSLTCKDNMLGKFEELTGPAPRPGVQIE 517
OY     481  VTPEIDVNGILRVTAEDKGNGKNKTTINDONRLTPREIERMVNDAEKFAEEDKTKLER 540
Db     518  VSPFDLNGILKVASDOKGTGKAESTITINDGRISOEIDSMVAEAEFEEDKATKAK 577
OY     541  IDTRNELESYAYSILKNOIGDKELGKLSSEDEKEMEKAVEREKTIEWLESH -ODADIEDFK 599
Db     578  IEARNSLENYAFSLKNOVNDENGLQOIDEDEDKQILDVAKEVTDLEDNAATATDEFE 637
OY     600  AKKELEIYOPITISKLYSAGPPTEGEEDETAELH 634
Db     638  EOKQOLSNVAVPTITSKLYGSA---PADEDEPSSGH 669

RESULT 8
US-09-759-010-4
; Sequence 4, Application US/09759010
; Patent No. US20010034042A1
; GENERAL INFORMATION:
; APPLICANT: Stryatava, Pramod K.
; TITLE OF INVENTION: COMPLEXES OF PEPTIDE BINDING FRAGMENTS OF HEAT-SHOCK
; TITLE OF INVENTION: PROTEINS AND THEIR USE AS IMMUNOTHERAPEUTIC AGENTS
; FILE REFERENCE: 8449-135
; CURRENT APPLICATION NUMBER: US/09/759,010
; CURRENT FILING DATE: 2001-01-12
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 646
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-759-010-4

Query Match      63.6%; Score 2083; DB 9; Length 646;
Best Local Similarity 66.1%; Pred. No. 3,1e-141;
Matches 410; Conservative 97; Mismatches 107; Indels 6; Gaps 5;
```

```
Db      63  PNTNVPDAKRLIGRFDADAVQSDMKHMPVYVNDAGRKYAVEI -KEETSTFPEEVSS 121
OY     130  MVLTRKMETAEAYLGKVKTHAVTVPAVENDAROATKDACGTIAGLNMRIINPTAAAI 189
Db     122  MVLTRKMEIAEAYLGKVTNAVTVPAVENDASORATKDACGTIAGLNLRIINPTAAAI 181
OY     190  AYGLDKREG -EKNTLVDDGGGTFEDVSLITLITNGVPEVATNGDTHLGGEDDORVNEHF 248
Db     182  AYGLDKKVGARNVLTLPDLGGGTFEDVSLITIEGTFEYKASTAGDTHLGGEDDORVNHFF 241
OY     249  IKLVKRTGDKVRKDNRAVOKLREVEKAKRALSQHOARIEESYEEDESETLRKAK 308
Db     242  IAEFRKHKHAKISENNKAVRRLRTACERAKRTLSSTOSIEIDSLYEGIDIFYSTRAR 301
OY     309  FEELNMDLFSVTMKPVOKVLESDLSKSDIDEVLVGGSTRIPKIOOLYKEFPNGKPSR 368
Db     302  FEELNMDLFRGTLDPYKALRLDKLSQIHDLVLGGSTRIPKIOLODFPNGKELNK 361
OY     369  GINPDEAVAYGAOAGVLSGD--ODTGDVLVLDVCPILGIEYGVMTKLIPRNTVVP 426
Db     362  SINPDEAVAYGAOAAIILSGDSENVODLLLDVYPLSLGIEYAGVMTVLIRNTTIP 421
OY     427  TKKSQIFSTASDNOPVTIKVYEGEPLTKDNHLLGTDLTGIPRPGVQIEVTFEID 486
Db     422  TKQOTFTTSDNPGVLIQVYEGEPLTKDNHLLGTDLTGIPRPGVQIEVTFEID 481
OY     487  VNGILRVTAEDKGTGKNKITTINDONRLTPREIERMVNDAEKFAEEDKTKLERIOTRNE 546
Db     482  ANGLINLSAVDKSTGKRNKITTINDGRILSKEDIEBMOEAKDEKORDVSSKNS 541
OY     547  LESYAYSILKNOIGDKELGKLSSEDEKEMEKAVEREKTIEWLESHODADIEPFKAKKELE 606
Db     542  LESTANAKATVED -EYLOKRIKDEDEKQILDKCNELIIMLDKNQTAKEEERHOKKELE 600
OY     607  EIVOPITISKLYSAGPPPTG 626
Db     601  KVCNPIITKLYOSAGMPGCG 620

RESULT 9
US-09-870-759-43
; Sequence 43, Application US/09870759
; Patent No. US2002017751A1
; GENERAL INFORMATION:
; APPLICANT: TERMAN, David S
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATMENT OF NEOPLASTIC DISEASE
; FILE REFERENCE: 870759
; CURRENT APPLICATION NUMBER: US/09/870,759
; CURRENT FILING DATE: 2002-01-14
; PRIOR APPLICATION NUMBER: US 60/208,128
; PRIOR FILING DATE: 2000-05-30
; NUMBER OF SEQ ID NOS: 166
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 43
; LENGTH: 646
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-870-759-43

Query Match      63.6%; Score 2083; DB 10; Length 646;
Best Local Similarity 66.1%; Pred. No. 3,1e-141;
Matches 410; Conservative 97; Mismatches 107; Indels 6; Gaps 5;
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OY      10  GTVVGIDLTGTTSCVGVFKNGRVEIIANDOGNRITPSPYAFTEGEEGRIGAAKNOLTSN 69
Db      4  GRAVGIDLTGTTSCVGVFGKVEIIANDOGNRITPSPYAFI -DTERLIGGAANKNOVAMN 62
OY     70  PENTVPDAKRLIGRTWNDPSVQODIKELPFKYVEKTKPYIOVDIGGGOTKTFAPPEISA 129
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OY     70  PENTVPDAKRLIGRTWNDPSVQODIKELPFKYVEKTKPYIOVDIGGGOTKTFAPPEISA 129
Db     63  PTNIVPDAKRLIGRFDADAVQSDMKHMPVYVNDAGRKYAVEI -KEETSFYPEEVSS 121
OY     130  MVLTRKMETAEAYLGKVKTHAVTVPAVENDAROATKDACGTIAGLNMRIINPTAAAI 189
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Db 122 MVLTKMKEAEVLYGKVTYNAVVPAYFENDSORAKTACAGTANVRLINTEPTAAI 181
Qy 190 AYGLDKREG-EKNILVFDLGGTGDVSLITDNGVEVYATNGDTHLGSEDFDORVMEH 248
Db 182 AYGLDKVGAERNVLI FDLGGTGDVSLITIEDGIFEVSTAGDTHLGSEDFDORVMEH 241
Qy 249 IKLYKKTGKDVRRDNRYOKLREVEKAKARALSSOHARIESFESEGEDESETLTRAK 308
Db 242 IAEFRKHKHKKDISEKRAVRRLTACERAKRTLSSTQASIEIDLSEIDYITRAR 301
Qy 309 FEELNADLFRTSMKRVOKVLEDSOLKSDIDEVLVGGSTRIPKIQOLYKEFNKESR 368
Db 302 FEELNADLFRTGLDPEVKALRDALDKSQJHDIVLVGGSTRIPKIQOLYKEFNKESR 361
Qy 369 GINPEAVAYGAAYVAGVLSGD--QDTGDLVLNDVCPVLGTGIEYGVMTKILPNTVAP 426
Db 362 SINPEAVAYGAAYVAGVLSGDSENVODLLLDVPLSGIETAGVMTVILKNTTIP 421
Qy 427 TKKSQIFSTASDNQPTVYIKYEGEERPLTKDNHLCTFDLTGIPAPRGVPOIETVFD 486
Db 422 TKQOTFTTYSNQGVLIVYEGEERAMTKDNHLCKFELTGIPAPRGVPOIETVFDID 481
Qy 487 VNGILRVTAEDKGTGNKKKITNDONRLPPEELERVYNDAEKFAEDKKLERIDTNE 546
Db 482 ANGLVNSAVDKSTGKRNKITNDKGRLSKEDIERNVOAEKYKADEKORDKVSXNS 541
Qy 547 LESVAVSLKNOIGDEKLGKLSSEDEKTEMEKAVEKEIEMLESHODADIEDKAKKLE 606
Db 542 LESVAVNMKATVED-EKLOGKINDEDKOKILDKCNELIMWLKNQTAKEEERHOOKELE 600
Qy 607 EIYOPITSLKYGAGPPTG 626
Db 601 KVCNPIITKLYSAGGMPG 620

RESULT 10
US-09-935-642-16
: Sequence 16, Application US/09935642
: Publication No. US20030044795A1
: GENERAL INFORMATION:
: APPLICANT: BYRJALSEN, Inger
: APPLICANT: LARSEN, Peter
: APPLICANT: STEPHEN, John
: TITLE OF INVENTION: Biochemical Markers for the Human
: FILE REFERENCE: 8969-014
: CURRENT APPLICATION NUMBER: US/09/935, 642
: PRIOR FILING DATE: 2001-08-24
: PRIOR APPLICATION NUMBER: PCT/G897/02394
: PRIOR FILING DATE: 1997-09-05
: PRIOR APPLICATION NUMBER: PCT/G89707132.8
: PRIOR FILING DATE: 1997-04-08
: PRIOR APPLICATION NUMBER: PCT/G89618600.2
: PRIOR FILING DATE: 1996-09-06
: NUMBER OF SEQ ID NOS: 16
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 16
: LENGTH: 646
: TYPE: PRT
: ORGANISM: Homo sapiens
US-09-935-642-16

Query Match 63.6% Score 2083; DB 11; Length 646;
Best Local Similarity 66.1%; Pred. No. 3.1e-141;
Matches 410; Conservative 97; Mismatches 107; Indels 6; Gaps 5;
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Qy 10 GTVAGIDLTGTTSCVGVFKNGRVEIIANDGNRTTPSYVAFTEGGERLIGDAKKNQLTGN 69
Db 4 GRAVGIDLTGTTSCVGVFOHKGVEIIANDGNRTTPSYVAF--DTERLLIGDAKKNQVANN 62
Qy 70 PENTVFDARLILGRFWDNPSVOODIKFLPFVYVEKKRPYIOVDIGGGTGFAPAEISA 129
Db 63 PNTVFDARLILGRFDDAVVOSDKHPEFMYVNDAGRPRVOVEY-KGETSKSYPEEYSS 121
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Db 63 PNTVFDARLILGRFDDAVVOSDKHPEFMYVNDAGRPRVOVEY-KGETSKSYPEEYSS 121
Qy 130 MVLTKMKEAEVLYGKVTYNAVVPAYFENDSORAKTACAGTANVRLINTEPTAAI 189
Db 122 MVLTKMKEAEVLYGKVTYNAVVPAYFENDSORAKTACAGTANVRLINTEPTAAI 181
Qy 190 AYGLDKREG-EKNILVFDLGGTGDVSLITDNGVEVYATNGDTHLGSEDFDORVMEH 248
Db 182 AYGLDKVGAERNVLI FDLGGTGDVSLITIEDGIFEVSTAGDTHLGSEDFDORVMEH 241
Qy 249 IKLYKKTGKDVRRDNRYOKLREVEKAKARALSSOHARIESFESEGEDESETLTRAK 308
Db 242 IAEFRKHKHKKDISEKRAVRRLTACERAKRTLSSTQASIEIDLSEIDYITRAR 301
Qy 309 FEELNADLFRTSMKRVOKVLEDSOLKSDIDEVLVGGSTRIPKIQOLYKEFNKESR 368
Db 302 FEELNADLFRTGLDPEVKALRDALDKSQJHDIVLVGGSTRIPKIQOLYKEFNKESR 361
Qy 369 GINPEAVAYGAAYVAGVLSGD--QDTGDLVLNDVCPVLGTGIEYGVMTKILPNTVAP 426
Db 362 SINPEAVAYGAAYVAGVLSGDSENVODLLLDVPLSGIETAGVMTVILKNTTIP 421
Qy 427 TKKSQIFSTASDNQPTVYIKYEGEERPLTKDNHLCTFDLTGIPAPRGVPOIETVFD 486
Db 422 TKQOTFTTYSNQGVLIVYEGEERAMTKDNHLCKFELTGIPAPRGVPOIETVFDID 481
Qy 487 VNGILRVTAEDKGTGNKKKITNDONRLPPEELERVYNDAEKFAEDKKLERIDTNE 546
Db 482 ANGLVNSAVDKSTGKRNKITNDKGRLSKEDIERNVOAEKYKADEKORDKVSXNS 541
Qy 547 LESVAVSLKNOIGDEKLGKLSSEDEKTEMEKAVEKEIEMLESHODADIEDKAKKLE 606
Db 542 LESVAVNMKATVED-EKLOGKINDEDKOKILDKCNELIMWLKNQTAKEEERHOOKELE 600
Qy 607 EIYOPITSLKYGAGPPTG 626
Db 601 KVCNPIITKLYSAGGMPG 620
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RESULT 11
US-09-919-039-11
: Sequence 11, Application US/09919039
: Publication No. US20030108871A1
: GENERAL INFORMATION:
: APPLICANT: Kaser, Matthew R.
: TITLE OF INVENTION: GENES EXPRESSED IN TREATED HUMAN C3A LAYER CELL CULTURES
: FILE REFERENCE: PA-0035 US
: CURRENT APPLICATION NUMBER: US/09/919, 039
: PRIOR FILING DATE: 2002-09-09
: PRIOR APPLICATION NUMBER: 60/222,113
: PRIOR FILING DATE: 2000-07-28
: NUMBER OF SEQ ID NOS: 401
: SOFTWARE: PERL Program
: SEQ ID NO 11
: LENGTH: 646
: TYPE: PRT
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: misc_feature
: OTHER INFORMATION: Incyte ID No. US20030108871A1 1545176CD1
US-09-919-039-11
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Query Match 63.6% Score 2083; DB 11; Length 646;
Best Local Similarity 66.1%; Pred. No. 3.1e-141;
Matches 410; Conservative 97; Mismatches 107; Indels 6; Gaps 5;

Qy 10 GTVAGIDLTGTTSCVGVFKNGRVEIIANDGNRTTPSYVAFTEGGERLIGDAKKNQLTGN 69
Db 4 GRAVGIDLTGTTSCVGVFOHKGVEIIANDGNRTTPSYVAF--DTERLLIGDAKKNQVANN 62
Qy 70 PENTVFDARLILGRFWDNPSVOODIKFLPFVYVEKKRPYIOVDIGGGTGFAPAEISA 129
Db 63 PNTVFDARLILGRFDDAVVOSDKHPEFMYVNDAGRPRVOVEY-KGETSKSYPEEYSS 121
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[illegible]

RESULT 12
 US-09-751-708A-43
 : Sequence 43, Application US/09/751708A
 : Publication No. US20030157113A1
 : GENERAL INFORMATION:
 : APPLICANT: TERMAN, David S
 : TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATMENT OF NEOPLASTIC DISEASE
 : FILE REFERENCE: 7511708
 : CURRENT APPLICATION NUMBER: US/09/751,708A
 : CURRENT FILING DATE: 2002-10-15
 : PRIOR APPLICATION NUMBER: US 60/173,371
 : PRIOR FILING DATE: 1999-12-28
 : NUMBER OF SEQ ID NOS: 166
 : SOFTWARE: PatentIn version 3.1
 : SEQ ID NO 43
 : LENGTH: 646
 : TYPE: PRT
 : ORGANISM: Homo sapiens
 US-09-751-708A-43

Query Match	63.68;	Score 2083;	DB 12;	Length 646;
Best Local Similarity	66.18;	Pred. No. 3.1e-141;		
Matches 410; Conservative	97;	Mismatches 107;	Indels 6;	Gaps 5

[illegible]

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QY 190 AYGLDREG-ENLILYFDLGSGTPEVSLITLTDNCVFEEVNAENGDTLGGEDFOGRWMEH 248
Db 182 AYGLDKVAERKVLFDLGGTPEVSLITLEDJFEYKSTAGDTLGGEDFOGRWMEH 241
QY 249 IKLYKKKTGDKVAKONRAVOKLRREVERAKBALSSOHARIEIESFECEGDFSELTTRAK 308
Db 242 IAFKKKKKKDISENKRRAVRLRTACEBAKRTLSSSTQASIEISLVEGIDFYSTIRAR 301
QY 309 FEELNMDLFRSTPKPVOKVLEDSDLKKSDIDEIYLVGSGTRIPKIQOLVKEFNKGEPSR 368
Db 302 FEELNMDLFRGLDPAPEKALRDAKLDKSOIHDIYLVGSGTRIPKIQOLLODFNGKELNK 361
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Db 362 SINPEAVVYGAAGVAGVAGVLSGKSENODLLLDVTPSLGIEFAGVMTVILKRMFTIP 421
QY 427 TKRSQIFSTASDNQPTVIYIKYEGSRPLTKONHLGTFDLTGIPADRGVQIETVPEID 486
Db 422 TKQTOFTTYSNQPVLQYVEGERAMTKNNMLGKFEELTGIPADRGVQIETVPEID 481
QY 487 VNGILVATAEDGTGNNKNTITTONLTPDEETERYNAENAEKAEEDKTLKERTORNE 546
Db 482 ANGLIWAASVDSTGKRNKTTITTONLGRLSIEDIERMQEIEKKADEKROKOVASKNS 541
QY 547 LESAYASLAKNOIGDERLKGKLSSEDKETMKAAVEEKIEMWLESHODADIEDPRAKKELE 606
Db 542 LESAYAFNMKATVED-EKLOGKINDEDKOKIIDCKNEIINMLDKNQTAKEEPEHOOKELE 600
QY 607 EIVQPIISKLXYSAGPPPG 626
Db 601 KVENPIITKLXYSAGMPGG 620

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RESULT 13
US-10-100-957A-174
: Sequence 174, Application US/10100957A
: Publication No. US20030096322A1
: GENERAL INFORMATION:
: APPLICANT: Giuliano, Kenneth A.
: APPLICANT: Kapur, Ravi
: TITLE OF INVENTION: A System for Cell Based Screening
: FILE REFERENCE: 97-022-L1A
: CURRENT APPLICATION NUMBER: US/10/100,957A
: CURRENT FILING DATE: 2002-03-19
: NUMBER OF SEQ ID NOS: 180
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 174
: LENGTH: 890
: TYPE: PRT
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Description of Artificial Sequence:
US-10-100-957A-174
GFP-HSC70

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Query Match	63.68;	Score 2083;	DB 15,	Length 890;
Best Local Similarity	66.18;	Pred. No. 5e-141;		
Matches 410;	Conservative 97;	Mismatches 107;	Indels 6;	Gaps 5;

[illegible]

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Db 486 IAEFKRKHKKDISEKRAVRRLRTACEAKRTSSSTQASIEIDSLTBEIDFTYSTTRK 545
Qy 309 FEELNMDLFRSTPMKPVQVLEDSDLKRSIDETVLVGGSTRIPKIQOLVKEFPNGKEPSR 368
Db 546 FEELNMDLFRSTGLDPEVEKALBDKADKSDIHDIVLVGSGSTRIPKIQOLVKEFPNGKEPSR 605
Qy 369 GINPDAAVYGAAYVAGVAGLSD--ODTGDVLVLDVCPLTGTEGTGCVMTKILIPRTVVP 426
Db 606 SINDPAAVYGAAYVAGVAGLSDGSENVODLLDLVPLSLGTEGTGCVMTKILIPRTVVP 665
Qy 427 TKKSQIFSTASDNPVTYIKYEGEERPLTKDNHLGTFDLTGIPAPRGVPOIEVTEYFEID 486
Db 666 TKQCTFTTYSDNGVGLIYVEGERATKDNMLLGKFEITGIPAPRGVPOIEVTEYFEID 725
Qy 487 VNCIILAVTEDEKGTGNKKITITNDQNLTPPEIERVNDAEKFAEDKKLERIDTRNE 546
Db 726 ANCIILVSAVDKSTCKEKKITITNDKGRSLKEDIERVNDAEKFAEDKKLERIDTRNE 785
Qy 547 LESYAVSLKNOIGDEKGLKSLSEDEKTEMEKAVEEKEIWLSEHODADIEDFRKAKKELE 606
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Qy 607 EIVOPILSKLYGSAGPPPTG 626
Db 845 KVCNPIITLKYOSAGMGPG 864

RESULT 14
US-09-759-010-3
? Sequence 3, Application US/09759010
? Patent No. US20010034042A1
? GENERAL INFORMATION:
? APPLICANT: Stryveva, Patmed K
? TITLE OF INVENTION: COMPLEXES OF PEPTIDE BINDING FRAGMENTS OF HEAT-SHOCK
? FILE REFERENCE: 8449-135
? CURRENT FILING DATE: 1997-04-08
? PRIOR FILING DATE: 1997-04-08
? CURRENT APPLICATION NUMBER: PCT/GB97/02394
? PRIOR APPLICATION NUMBER: PCT/GB97/0132.8
? PRIOR FILING DATE: 1997-04-08
? PRIOR APPLICATION NUMBER: PCT/GB9618600.2
? PRIOR FILING DATE: 1996-09-06
? SOFTWARE: PatentIn Ver. 2.1
? SEQ ID NO 3
? LENGTH: 641
? TYPE: PRP
? ORGANISM: Homo sapiens
US-09-759-010-3

Query Match 62.3%; Score 2039.5; DB 9; Length 641;
Best Local Similarity 64.4%; Pred. No. 4,le-138;
Matches 398; Conservative 105; Mismatches 108; Indels 7; Gaps 6;

Qy 13 VGIDLGTTTSCVGVKNGRVEIANDQGNRTTPSYVAFTEGGERLIGDAKNOIUSNPN 72
Db 7 IGIDLGTTTSCVGVKNGRVEIANDQGNRTTPSYVAFTEGGERLIGDAKNOIUSNPN 65
Qy 73 TVFDARLLIGRTWNPVSVOODIKLPEFVVEKTKPYIQVDIGGGTGTFAPEISAWL 132
Db 66 TVFDARLLIGRKGFGPVVQSDMKHMPFVINDGKPKVQVSY-KGETKAFYPEISSAWL 124
Qy 133 TKKKEAEVYLGKKTTHAVVYPAVFNDQKQATKDGCTAGLNVRKIINEPTAAIAVG 192
Db 125 TKKKEAEVYLGKKTTHAVVYPAVFNDQKQATKDGCTAGLNVRKIINEPTAAIAVG 184
Qy 193 LDKR-EGERNIIIVPLDGGTGPVSLITDNGVFEVAVTNGDTHLGSEDFDQRMHEFIKL 251
Db 185 LDKRGERNIIIVPLDGGTGPVSLITDNGVFEVAVTNGDTHLGSEDFDQRMHEFIKL 244
Qy 252 YKKTKGDKVRKNRAVOKLREVEKAKRALLSSQQAIIETESYEEDDESEITRAKFE 311
Db 245 YKKTKGDKVRKNRAVOKLREVEKAKRALLSSQQAIIETESYEEDDESEITRAKFE 304
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Db 305 LNSDLFRSTGLDPEVEKALBDKADKSDIHDIVLVGSGSTRIPKIQOLVKEFPNGKEPSRGIN 364
Qy 372 POEAAVYGAAYVAGVAGLSD--ODTGDVLVLDVCPLTGTEGTGCVMTKILIPRTVVP 429
Db 365 POEAAVYGAAYVAGVAGLSDGSENVODLLDLVPLSLGTEGTGCVMTKILIPRTVVP 424
Qy 430 SOLFSTASDNPVTYIKYEGEERPLTKDNHLGTFDLTGIPAPRGVPOIEVTEYFEIDVNG 489
Db 425 TQIFFTYSNMGVGLIYVEGERATKDNMLLGKFEITGIPAPRGVPOIEVTEYFEIDVNG 484
Qy 490 ILRTVAEDKGTGNKKITITNDQNLTPPEIERVNDAEKFAEDKKLERIDTRNELES 549
Db 485 ILNVTATDKSTGKAKKITITNDKGRSLKEDIERVNDAEKFAEDKKLERIDTRNELES 544
Qy 550 YAVSLKNOIGDEKGLKSLSEDEKTEMEKAVEEKEIWLSEHODADIEDFRKAKKELEIY 609
Db 545 YAFNMKATVED-EKIQGKINDEKOKILDKCNFIIMLDKNOIAEKEEFHQOKELE 603
Qy 610 QPIISKLY-GSAGPPPTG 626
Db 604 NPILSGLYGAGGPGPG 621

RESULT 15
US-09-935-642-1
? Sequence 1, Application US/09935642
? Publication No. US20030044795A1
? GENERAL INFORMATION:
? APPLICANT: BYRJALSEN, Inger
? APPLICANT: LARSEN, Peter
? APPLICANT: STEPHEN, John
? TITLE OF INVENTION: Biochemical Markers for the Human
? FILE REFERENCE: 8969-014
? CURRENT APPLICATION NUMBER: US/09/935,642
? CURRENT FILING DATE: 2001-08-24
? PRIOR FILING DATE: 1997-09-05
? PRIOR APPLICATION NUMBER: PCT/GB97/02394
? PRIOR APPLICATION NUMBER: PCT/GB9707132.8
? PRIOR FILING DATE: 1997-04-08
? PRIOR APPLICATION NUMBER: PCT/GB9618600.2
? PRIOR FILING DATE: 1996-09-06
? NUMBER OF SEQ ID NOS: 16
? SOFTWARE: FastSeq for Windows Version 4.0
? SEQ ID NO 1
? LENGTH: 641
? TYPE: PRP
? ORGANISM: Homo sapiens
US-09-935-642-1

Query Match 62.3%; Score 2039.5; DB 11; Length 641;
Best Local Similarity 64.4%; Pred. No. 4,le-138;
Matches 398; Conservative 105; Mismatches 108; Indels 7; Gaps 6;

Qy 13 VGIDLGTTTSCVGVKNGRVEIANDQGNRTTPSYVAFTEGGERLIGDAKNOIUSNPN 72
Db 7 IGIDLGTTTSCVGVKNGRVEIANDQGNRTTPSYVAFTEGGERLIGDAKNOIUSNPN 65
Qy 73 TVFDARLLIGRTWNPVSVOODIKLPEFVVEKTKPYIQVDIGGGTGTFAPEISAWL 132
Db 66 TVFDARLLIGRKGFGPVVQSDMKHMPFVINDGKPKVQVSY-KGETKAFYPEISSAWL 124
Qy 133 TKKKEAEVYLGKKTTHAVVYPAVFNDQKQATKDGCTAGLNVRKIINEPTAAIAVG 192
Db 125 TKKKEAEVYLGKKTTHAVVYPAVFNDQKQATKDGCTAGLNVRKIINEPTAAIAVG 184
Qy 193 LDKR-EGERNIIIVPLDGGTGPVSLITDNGVFEVAVTNGDTHLGSEDFDQRMHEFIKL 251
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QY 252 YKKTGDKVKNRNVOKLREVEKAKKALSSOHOARIEISFYEGEDFSTLTKRAKFE 311
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QY 312 LNMDFRSTMKPVOKVLESDLKSDIDEIVLGGSTRIPKIOIYKKEFNGKEPSRGIN 371
Db 305 LCSDFRSTLEPEVEKALBDKADKQIHDLVLVGSGSTRIPKQKLLDQFPNGRDLNKSIN 364
QY 372 PDEAVAYGAOVAQVLSGD--ODTGLVLLDYCPLTIGIETVGVMTLIPRNTVVPK 429
Db 365 PDEAVATGAOVAQVILMGDSENVODLILLDVAPLSLGLETAGVMTALIKRNSTIPKQ 424
QY 430 SQIFSTASDNQPTVTLKYVEGERPLTKDNHLLGTDLTGIPAPRGVPOIEVTFEIDVNG 489
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QY 490 ILRTAFEDKGTGNKNTTINDQNRLLTPEIEIRMNDAKFAEDKALKERIDTRNELES 549
Db 485 ILNVTATDKSTGANKTTTINDKGRLSKEEIERMVOEAKYAEDEVQREVSANMALES 544
QY 550 YAVSLKNOISDKKELGKLSSEDKETMEKAVEKEIEMWLESHODADIEDFKAKKLEIIV 609
Db 545 YAFNKSAYED-BGLKOKISEADKKRVLDKCOEVLISWLDANTLAEKDEFEHKKRELEQVC 603
QY 610 QPITSXLY-GSAGPPPTG 626
Db 604 NPITISGLYGAGGPGPG 621

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OM protein - protein search, using sw model

Run on: September 30, 2003, 09:47:37 ; Search time 15.4269 Seconds
(without alignments)
1736.110 Million cell updates/sec

Title: US-09-806-955A-2
Perfect score: 3225
Sequence: 1 MEEDKEDVGVGIDLGT.....SKLYGSAQPPTEEDTAEL 633

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	3209	99.5	654	1	US-08-441-139-11
2	3168	98.2	666	1	US-08-441-139-16
3	2310.5	71.6	655	4	US-09-632-538C-36
4	2173	67.4	682	1	US-08-441-139-7
5	2186	66.9	663	1	US-08-441-139-7
6	2083	64.6	890	4	US-09-513-783A-174
7	2077	64.4	646	1	US-08-441-139-14
8	2065.5	64.0	679	1	US-08-441-139-5
9	1938	60.1	643	3	US-08-797-358B-3
10	1547.5	48.0	679	1	US-08-214-583-2
11	1513	46.9	616	4	US-09-134-001C-3646
12	1495	46.4	642	4	US-09-207-388-15
13	1495	46.4	662	4	US-09-207-388-15
14	1492	46.3	662	4	US-09-207-388-13
15	1492	46.3	657	4	US-09-252-991A-27358
16	1484	46.0	711	4	US-09-613-303-41
17	1480.5	45.9	724	4	US-09-613-303-45
18	1478.5	45.8	660	4	US-09-328-352-4932
19	1474	45.7	641	1	US-08-441-139-4
20	1461.5	45.3	649	4	US-09-066-047-5
21	1444	44.8	607	2	US-08-472-534-5
22	1399.5	43.4	536	4	US-09-107-532A-6930
23	1378	42.7	539	4	US-09-198-452A-543
24	1303.5	40.4	600	6	5240706-1
25	1297	40.2	562	4	US-09-207-388-14
26	1255	38.9	253	4	US-09-581-001B-8
27	1140.5	35.4	339	2	US-08-928-692-52

28	1140.5	35.4	339	4	US-09-339-972-52	Sequence 52, Appl
29	1077	33.4	415	4	US-09-207-388-12	Sequence 12, Appl
30	990.5	30.7	623	4	US-09-252-991A-22906	Sequence 22906, A
31	973.5	30.2	620	4	US-09-328-352-7730	Sequence 7730, Ap
32	941	29.2	187	6	5196523-13	Patent No. 5196523
33	842	26.1	199	4	US-09-581-001B-7	Sequence 7, Appl
34	824	25.6	168	1	US-08-441-139-10	Sequence 10, Appl
35	818.5	25.4	315	1	US-08-257-073-7	Sequence 7, Appl
36	801.5	24.9	941	4	US-09-513-783A-172	Sequence 172, App
37	750.5	23.3	471	1	US-08-203-905B-2	Sequence 2, Appl
38	726.5	22.5	472	1	US-08-203-905B-14	Sequence 14, Appl
39	701	21.7	307	4	US-08-858-207A-481	Sequence 481, App
40	680.5	21.1	196	4	US-09-581-001B-9	Sequence 9, Appl
41	642.5	19.9	129	6	5196523-10	Patent No. 5196523
42	607.5	18.8	999	2	US-08-770-301A-3	Sequence 3, Appl
43	607.5	18.8	999	3	US-09-175-581-3	Sequence 1, Appl
44	598	18.5	999	2	US-08-770-301A-1	Sequence 1, Appl
45	598	18.5	999	3	US-09-175-581-1	Sequence 1, Appl

ALIGNMENTS

RESULT 1
US-08-441-139-11
Sequence 11, Application US/08441139
Patent No. 5773245
GENERAL INFORMATION:
APPLICANT: WITTUP, DR. KARL D.
TITLE OF INVENTION: METHODS FOR INCREASING SECRETION OF
TITLE OF INVENTION: RECOMBINANTLY EXPRESSED PROTEINS
NUMBER OF SEQUENCES: 20
CORRESPONDENCE ADDRESS:
ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
STREET: 400 Garden City Plaza
CITY: Garden City
STATE: NY
COUNTRY: USA
ZIP: 11530
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,139
FILING DATE: 15-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/089,997
FILING DATE: 06-JUL-1993
ATTORNEY/AGENT INFORMATION:
NAME: DIGILIO, Frank S.
REGISTRATION NUMBER: 31,346
REFERENCE/DOCKET NUMBER: 8646
TELECOMMUNICATION INFORMATION:
TELEPHONE: 516-742-4343
TELEFAX: 516-742-4366
TELEX: 230 901 SANS UR
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 654 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-441-139-11
Query Match 99.5%; Score 3209; DB 1; Length 654;
Best Local Similarity 99.7%; Pred. No. 7.2e-259;
Matches 629; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 EEDKKEDVGVVIGIDGTTYSQGVFKNGRVEIITANDQNRITPSYVAFTPEGERLIGDA 61
DB 20 EEDKKEDVGVVIGIDGTTYSQGVFKNGRVEIITANDQNRITPSYVAFTPEGERLIGDA 79
QY 62 AKKQLTSPENTVPDAKRLIGTWNDSVODIKFLPKVVEKTKPYIOVDIGGQOTK 121
DB 80 AKKQLTSPENTVPDAKRLIGTWNDSVODIKFLPKVVEKTKPYIOVDIGGQOTK 139
QY 122 FAREETASAVLTAKMETAEAYLGKKVTHAVVTPAYPNDARQATDAGIAGLNMRII 181
DB 140 FAREETASAVLTAKMETAEAYLGKKVTHAVVTPAYPNDARQATDAGIAGLNMRII 199
QY 182 NEPTAAIAYGIDKREGEKNILVPDLGGCTDVSLLTIDNGVEVATNGDTHLGGEDP 241
DB 200 NEPTAAIAYGIDKREGEKNILVPDLGGCTDVSLLTIDNGVEVATNGDTHLGGEDP 259
QY 242 QRVMEHFIKLYKKTKGDKVKNRAVOKLREVEKAKRALSQHOARIEIESFECEDEFS 301
DB 260 QRVMEHFIKLYKKTKGDKVKNRAVOKLREVEKAKRALSQHOARIEIESFECEDEFS 319
QY 302 ETLTRAKFEELNMDLFRSTMKPVOKVLEDSDLKSDIDEIYLVGGSTRIPKIQOLVKEFF 361
DB 320 ETLTRAKFEELNMDLFRSTMKPVOKVLEDSDLKSDIDEIYLVGGSTRIPKIQOLVKEFF 379
QY 362 NGKEPSRGINPDEAVAYGAAGVAGVLSGDDTGDVLVLCPLTLGIEVGGVMTKLIIR 421
DB 380 NGKEPSRGINPDEAVAYGAAGVAGVLSGDDTGDVLVLCPLTLGIEVGGVMTKLIIR 439
QY 422 NTVPPTKKSQIFSTASDNPVTYTIKVEGERPLTKDNHLLGTDLTGIPAPRGVQIIEV 481
DB 440 NTVPPTKKSQIFSTASDNPVTYTIKVEGERPLTKDNHLLGTDLTGIPAPRGVQIIEV 499
QY 482 TFEIDVNGILRYTAEDKGTGNKNTITINDQNRILTPEIERMVDNAKFAEEDKKLKERI 541
DB 500 TFEIDVNGILRYTAEDKGTGNKNTITINDQNRILTPEIERMVDNAKFAEEDKKLKERI 559
QY 542 DTNNELESAYSLKNOIGDKELGKLSSEDEKEMEKAVEREIEMLESHODADIEDFKAK 601
DB 560 DTNNELESAYSLKNOIGDKELGKLSSEDEKEMEKAVEREIEMLESHODADIEDFKAK 619
QY 602 KKELEBIVOPITISKLYGSAGPPTGEEDTAE 632
DB 620 KKELEBIVOPITISKLYGSAGPPTGEEDTAE 650

RESULT 2
US-08-441-139-16
; Sequence 16, Application US/08441139
; Patent No. 5773245
; GENERAL INFORMATION:
; APPLICANT: Wiltrop, Dr. Karl D.
; APPLICANT: Roblison, Anne S.
; TITLE OF INVENTION: METHODS FOR INCREASING SECRETION OF
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SCUDLY, SCOTT, MURPHY & PRESSER
; STREET: 400 Garden City Plaza
; CITY: Garden City
; STATE: NY
; COUNTRY: USA
; ZIP: 11530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: 15-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/089,997

; FILING DATE: 06-JUL-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: DIGITAL, Frank S.
; REGISTRATION NUMBER: 31,346
; REFERENCE/DOCKET NUMBER: 8646
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 516-742-4343
; TELEFAX: 516-742-4366
; TELEX: 230 901 SANS UR
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 666 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-441-139-16

Query Match 98.2%; Score 3168; DB 1; Length 666;
Best Local Similarity 97.8%; Pred. No. 1.9e-255;
Matches 617; Conservative 11; Mismatches 3; Indels 0; Gaps 0;

QY 2 EEDKKEDVGVVIGIDGTTYSQGVFKNGRVEIITANDQNRITPSYVAFTPEGERLIGDA 61
DB 32 DEEDKKEDVGVVIGIDGTTYSQGVFKNGRVEIITANDQNRITPSYVAFTPEGERLIGDA 91
QY 62 AKKQLTSPENTVPDAKRLIGTWNDSVODIKFLPKVVEKTKPYIOVDIGGQOTK 121
DB 92 AKKQLTSPENTVPDAKRLIGTWNDSVODIKFLPKVVEKTKPYIOVDIGGQOTK 151
QY 122 FAREETASAVLTAKMETAEAYLGKKVTHAVVTPAYPNDARQATDAGIAGLNMRII 181
DB 152 FAREETASAVLTAKMETAEAYLGKKVTHAVVTPAYPNDARQATDAGIAGLNMRII 211
QY 182 NEPTAAIAYGIDKREGEKNILVPDLGGCTDVSLLTIDNGVEVATNGDTHLGGEDP 241
DB 212 NEPTAAIAYGIDKREGEKNILVPDLGGCTDVSLLTIDNGVEVATNGDTHLGGEDP 271
QY 242 QRVMEHFIKLYKKTKGDKVKNRAVOKLREVEKAKRALSQHOARIEIESFECEDEFS 301
DB 272 QRVMEHFIKLYKKTKGDKVKNRAVOKLREVEKAKRALSQHOARIEIESFECEDEFS 331
QY 302 ETLTRAKFEELNMDLFRSTMKPVOKVLEDSDLKSDIDEIYLVGGSTRIPKIQOLVKEFF 361
DB 332 ETLTRAKFEELNMDLFRSTMKPVOKVLEDSDLKSDIDEIYLVGGSTRIPKIQOLVKEFF 391
QY 362 NGKEPSRGINPDEAVAYGAAGVAGVLSGDDTGDVLVLCPLTLGIEVGGVMTKLIIR 421
DB 392 NGKEPSRGINPDEAVAYGAAGVAGVLSGDDTGDVLVLCPLTLGIEVGGVMTKLIIR 451
QY 422 NTVPPTKKSQIFSTASDNPVTYTIKVEGERPLTKDNHLLGTDLTGIPAPRGVQIIEV 481
DB 452 NTVPPTKKSQIFSTASDNPVTYTIKVEGERPLTKDNHLLGTDLTGIPAPRGVQIIEV 511
QY 482 TFEIDVNGILRYTAEDKGTGNKNTITINDQNRILTPEIERMVDNAKFAEEDKKLKERI 541
DB 512 TFEIDVNGILRYTAEDKGTGNKNTITINDQNRILTPEIERMVDNAKFAEEDKKLKERI 571
QY 542 DTNNELESAYSLKNOIGDKELGKLSSEDEKEMEKAVEREIEMLESHODADIEDFKAK 601
DB 572 DTNNELESAYSLKNOIGDKELGKLSSEDEKEMEKAVEREIEMLESHODADIEDFKAK 631
QY 602 KKELEBIVOPITISKLYGSAGPPTGEEDTAE 632
DB 632 KKELEBIVOPITISKLYGSAGPPTGEEDTAE 662

RESULT 3
US-09-632-538C-36
; Sequence 36, Application US/09632538C
; Patent No. 6440674
; GENERAL INFORMATION:
; APPLICANT: Misra, Santosh et al.

OY	544	RNLEGEYAALNNQI-CGKELGGTSEDETEKEVVEIKEMLSH--GDADIDPFKAK	601
Dd	582	RNKLEMYAHSALKVNGD---LGELEPEDEKETILLDANADVLENLDNFETAIADFDEK	638
OY	602	KKELEIVOPITISKLYGA---GPPTCEED	629
Dd	639	FESLSKVAAPIITSKLYGGADSGADYDDDED	669
 RESULT 5 US-08-441-139-7			
Sequence 7, Application US/08441139			
Patient No. 5773245			
GENERAL INFORMATION:			
APPLICANT: Wiltrop, Dr. Karl D.			
APPLICANT: Robinson, Anne S.			
TITLE OF INVENTION: METHODS FOR INCREASING SECRETION OF			
TITLE OF INVENTION: RECOMBINANTLY EXPRESSED PROTEINS			
NUMBER OF SEQUENCES: 20			
CORRESPONDENCE ADDRESS:			
ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER			
STREET: 400 Garden City Plaza			
CITY: Garden City			
STATE: NY			
COUNTRY: USA			
ZIP: 11530			
COMPUTER READABLE FORM:			
MEDIUM TYPE: Floppy disk			
COMPUTER: IBM PC compatible			
OPERATING SYSTEM: PC-DOS/MS-DOS			
SOFTWARE: Patent Release #1.0, Version #1.25			
CURRENT APPLICATION DATA:			
APPLICATION NUMBER: US/08/441,139			
FILING DATE: 15-MAY-1995			
CLASSIFICATION: 435			
PRIOR APPLICATION DATA:			
APPLICATION NUMBER: US 08/089,997			
FILING DATE: 06-JUL-1993			
ATTORNEY/AGENT INFORMATION:			
NAME: DIGILLO, Frank S.			
REGISTRATION NUMBER: 31,346			
REFERENCE/DOCKET NUMBER: 8646			
TELECOMMUNICATION INFORMATION:			
TELEPHONE: 516-742-4343			
TELEFAX: 516-742-4366			
TELEX: 230 901 SANS UR			
INFORMATION FOR SEQ ID NO: 7:			
SEQUENCE CHARACTERISTICS:			
LENGTH: 663 amino acids			
TYPE: amino acid			
TOPOLOGY: linear			
MOLECULE TYPE: protein			
US-08-441-139-7			
 Query Match 66.9%; Score 2156; DB 1; Length 663; Best Local Similarity 67.5%; Pred. No. 4,2e+171; Matches 425; Conservative 92; Mismatches 107; Indels 6; Gaps 6			
OY	2	EEDKKEDGVAVVIGDICTGYSCVGFKKGREVIIANOGGNRITPSYAFPEEERLIGA	61
Dd	27	DNDSIESYGIVIGIDIGTTYSVCVAAMKKGRVEIIIANOGNRITPSYAFI-EEERLVGER	85
OY	62	AKNQLTSPENTVFDAKRLLIGRTWMDPSVOODIKFLPKYVEKTKATPYIOVDIGGQT	121
Dd	86	AKNOVASNPENETIFDIKRLIRGKRPDEKTMAKDIFSFPFIYNDKNRPLVEVNV-GGKKKK	144
OY	122	FARPEISAWMLTFMKETAAYAGKKVTNAVVTPAYEFMDAORQATKAGTAGLANMRII	181
Dd	145	FTFEIEISAMLSMKNOTAAYIGKRYTHSVYTVPATYFDNAQRQATKAGTAGLANRIIRY	204
OY	182	NEPFLAAIAVLGDKREGKENIIVDLGGGITDVSLTLTDNGVFEVATNGDTHLGGEDP	241

Db	202	NEPTAALAIYVGDKTDTEKHIIVYVDLGGGTDFVSLISIDNGVEEVLATSGDTHLAGEDEP	264
Qy	242	QRYMEHFILYKKTKGCRKDNNAVOKLRPEVAKARALSSOHOARIEESFEYGEDES	301
Db	265	NRININLATYVRRKNVNVYTDLMGKLKREVEKAGNTLSSOKSVRIETESFFKQDPS	324
Qy	302	ETLTRAKPEELNMDLFRSTKMPVOKVLEDSDLKSDIDEIVLVGSGTRIPKIDOLKEFF	361
Db	325	ETLSRAKFEIIRHGSIQDEDFEVEQVLKDSMLKSFIDIVLVGSGTRIPKIDOLKEFF	384
Qy	362	NKEPESRGINPEEAAYGAAYOAGVLSGDDOTGOLVLDVCPITLIGIEMYGWMLIPR	421
Db	385	GKASKSGINPEEAAYGAAYOAGVLSGDESDSIVLIDVLPITLIGIETTGGMKLICR	443
Qy	422	NTVYPRKSQIFSTASDNOPTVYIKVEGERPLTKDNHLLGTEDLTGTPAPRGVPOIEV	481
Db	444	NPPIPRKSQIFSTAVDNOPTVLIQVGEGERLTKNHLLGKFDLRGIPAPRGVPOIEV	503
Qy	482	TEPIDVNGILRYTADK-CTGNKKTKITTDNDONLTPEELIRNVNAEKFAEDDKLKER	540
Db	504	TEPIDVNGILRYTADK-CTGNKKTKITTDNDONLTPEELIRNVNAEKFAEDDKLKER	563
Qy	541	IDTRNELESYAVSLKNOIGDKREKLGKLSDEDKETMEKAVEEKIEMWLESH-QDADIEDPK	599
Db	564	IEARNLTENYAVSLKNOIGDKREKLGKLSDEDKETMEKAVEEKIEMWLESH-QDADIEDPK	623
Qy	600	AKKKELEEVOPILISKLVGSGAPPTGCEED 629	
Db	624	DOROKIDNAVHPIITOKLY-SEGAGADEDED 652	
RESULT 6			
US-09-513-783A-174			
Sequence 174, Application US/09513783A			
Patent No. 6416959			
GENERAL INFORMATION:			
APPLICANT: Giuliani, Kenneth A.			
TITLE OF INVENTION: A System for Cell Based Screening			
FILE REFERENCE: 97-022-L1			
CURRENT APPLICATION NUMBER: US/09/513,783A			
CURRENT FILING DATE: 2000-02-25			
NUMBER OF SEQ ID NOS: 180			
SOFTWARE: PatentIn Ver. 2.0			
SEQ ID NO 174			
LENGTH: 890			
TYPE: PR1			
ORGANISM: Artificial Sequence			
FEATURE:			
OTHER INFORMATION: Description of Artificial Sequence: GFP-HSC70			
US-09-513-783A-174			
Query Match 64.6% Score 2083; DB 4: Length 890;			
Best Local Similarity 66.1% Pred. No. 8e-165;			
Matches 410; Conservative 97; Mismatches 107; Indels 6; Gaps 5			
Qy	10	GTIVGIDLTGTYSCVGFKNRGEVILANDGCRITPTSYAFTEPGERLIDDAKNOITSN	69
Db	248	GPVAFIDLTGTYSCVGFQDHCKVEILANDGCRITPTSYAFET-DTERLIDDAKNOVAIN	306
Qy	70	PENTVFDAKRLIGRTMNPDSVOODIKFLPFYVEKTKRPYIOWDIGGOTKTFAPREISA	129
Db	307	PLNTVFDAKRLIGRRFDAAVVOGSDMKHHPFVAVNADGAPVQVLEY-KGEIKSYPREVSS	365
Qy	130	MVLTKKKEAEAYLGKTYTHAVYVPAYFNDANOATKIDAGTLAGLNMRIINEPAAAI	189
Db	366	MVLTKKKEAEAYLGKTYTHAVYVPAYFNDNSORATKIDAGTLAGLNMRIINEPAAAI	425
Qy	190	AYLQDKREG-EKNILVFDLGGSTFVSLTITDNGVFEVATNGDTHLGGEDFOORYMEHF	248
Db	426	AYLQDKKVAERKRVILFDLGGSTFVSLTITDNGVFEVATNGDTHLGGEDPDNRVYNHF	485
Qy	249	IKLYKKKTKGVDRKDNNAVOKLRPEVAKARALSSOHOARIEESFEYGESETLTRAK	308

Db	486	IABEKKRHKHJISENKEBRAVRLRTACERAKRTLLSSPQASLEIDSLVEGIDFYTSIRRR	545
Qy	309	FEELMNDLFRSTNKPQAKVLEDSLKKSDIDEIYLVGSGTTPKTIQOLWEEFNKKEPSR	368
Db	546	FEELMNDLFRGTLDPAPEKALRDAKLDKSOIHDIYLVGSGTTPKTIQKLODFENKELANK	605
Qy	369	GIRPEADVAVYGAAYGVGVLGSD -ODTGDVLVLDVCPLTGIEFVGGVMKRLIPRNVVP	426
Db	606	SINPEADVAVYGAAYVAILSCSKSENVODLLMLDVTPLSLGTETAGCMYVLLKRNTTIP	665
Qy	427	TKRSQIFSTASDNQPTVTIKYVEGERPLTKDNHLLGTPEDLGIPAPRGVQOLEVPEID	486
Db	666	TKQTFETFTYSDNQPFVLIOYVEGERAMTKDNHLLKPELGIIPAPRGVQOLEVPEID	725
Qy	487	VNGLIATVATDGTGKNNKITTITNOONRLPEELIRMANVDAEKAPEDEKAKLEKIDTRNE	546
Db	726	ANGLIIVNSAIDVSTGCKENKITTITNKGRIKSLKEDIERMVOAEKKAPEDEKDRDVKSRNS	785
Qy	547	LESYAVSLKNOJDEKGLKGLKSEDEKTEMEKAVEKIEMLESHQADIDEDFRAKKELE	606
Db	786	LESYAVNMKATVED -EKLOGKINDEDKOIKDKCEIINMLDKNQTAKEEFERHQKELE	844
Qy	607	EIVQPIITSLKLGSGACPPPG 626	
Db	845	KVCNPIITKLYOSAGGPG 864	

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1      RESULT 7
2      US-08-441-139-14
3      : Sequence 14, Application US/08441139
4      : Patent No 5773245
5      :
6      : GENERAL INFORMATION:
7      :
8      : APPLICANT: Wiltup, Dr. Karl D.
9      : APPLICANT: Robinson, Anne S.
10     : TITLE OF INVENTION: METHODS FOR INCREASING SECRETION OF
11     : TITLE OF INVENTION: METHODS FOR INCREASING SECRETION OF
12     : NUMBER OF SEQUENCES: 20
13     : CORRESPONDENCE ADDRESS:
14     : ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
15     : STREET: 400 Garden City Plaza
16     : CITY: Garden City
17     : STATE: NY
18     : COUNTRY: USA
19     : ZIP: 11530
20     :
21     : COMPUTER READABLE FORM:
22     : MEDIUM TYPE: Floppy disk
23     : COMPUTER: IBM PC compatible
24     : OPERATING SYSTEM: PC-DOS/MS-DOS
25     : SOFTWARE: Patent In Release #1.0, Version #1.25
26     : CURRENT APPLICATION DATA:
27     : APPLICATION NUMBER: US/08/441,139
28     : FILING DATE: 15-May-1995
29     : CLASSIFICATION: 435
30     : PRIOR APPLICATION DATA:
31     : APPLICATION NUMBER: US 08/089,997
32     : FILING DATE: 06-JUL-1993
33     : ATTORNEY/AGENT INFORMATION:
34     : NAME: Digililo, Frank S.
35     : REGISTRATION NUMBER: 31,346
36     : REFERENCE/DOCKET NUMBER: 8646
37     : TELECOMMUNICATION INFORMATION:
38     : TELEPHONE: 516-742-4343
39     : TELEFAX: 516-742-4366
40     : TELEX: 230 901 SANS UR
41     : INFORMATION FOR SEQ ID NO: 14:
42     : SEQUENCE CHARACTERISTICS:
43     : LENGTH: 646 amino acids
44     : TYPE: amino acid
45     : TOPOLOGY: linear
46     : MOLECULE TYPE: protein
47     :
48     : US-08-441-139-14

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Query Match          64.4%: Score 2077: DB 1: Length 646;
Best Local Similarity 66.0%: Pred. No. 1,56-164;
Matches 409: Conservative 97: Mismatches 108: Indels 6: Gaps 5

QY 10 GTVAGIDIGTTCVGVCKNGREVEIIANDOCNRTTSPYAFTEGGERLIGDAKKNOITSN 69
DB 4 GPVAVIGIDIGTTCVGVFOHGRKVEIIANDOCNRTTSPYAFVFT-DTERLLIGDAKKNOVANN 62
QY 70 PENTAVDARLLGRFMNDPSYOODIKELPEFVYVKKTKPYIOVDIGGGOTKTFAPETISA 129
DB 63 PNTVTVDAKRLGRFEDDAVYOSDMKHHFPMVYVNDAGRPRVQVEY-KGELKSTPYREVS 121
QY 130 MVLTKKETAELAYLCKKVTTHAVTVPAYFENDAQOATKADGTAGLNMRIINEPTAAI 189
DB 122 MVLTKKETAELAEYLCKTVTNAVTVPAYFENDSQOATKADGTAGLNMRIINEPTAAI 181
QY 190 AYLCDKREC-EKNITLVFDLGGSTPVSLLITDNCVFEEVATNGDTHLGGEDPDQRYMEHF 248
DB 182 AYGLDKKVAERNVLLFDLGGSTPEVSLITIEDSIFEYKSTAGDTHLGGEDPDQRYNHVF 241
QY 249 IKLYKKRTGDKVRKDNRAVQKILREVEKAKKRALSSQOARIETESFYEGEDSEETLTRAK 308
DB 242 IAFKKRHHKDDISENKRRAVRRLTFACERAKRTLTSSQASIEIDSLYEGLIDFYTSTRAR 301
QY 309 FEELNMDLFRSMKRVQAVOLEDSDLKSDIDEIYLVGSGRIRKIOOLYKEPFGKEPSR 368
DB 302 FEELNMDLFRGLDPEYERKALNDAKLDKQHHDIYLVGSGSTRIRKIOKLDLDFPNEGELNK 361
QY 369 GINPDEAVAYGAOVAAGVLSGD--ODTGDLVLDVCPYLTGIGTGVGWTKLIPRNTVP 426
DB 362 SINPDEAVAYGAOVAALISGKRSKNVODLLDLDPVLSGIEFAGVMTVLKRNTPTP 421
QY 427 TKRSQIFSPASNOPTVYTIKVEGERPPTKCNHLLGFDLTGIPAPRGPQIIEVFIED 486
DB 422 TKRQOULTTYSNQGVLIOYEGESRATKCNHLLGKFEITGIPAPRGPQIIEVFIED 481
QY 487 VNCILNVTAEKGTGCKNKKITTDONRFLPEETERNVANDAEKFAEDKKLERIDTRNE 546
DB 482 ANCIINVASVDSTGKRNKITYTNDKRLSKEDIERVVOAEYKAEDEKQORDKSSKNS 541
QY 547 LESVAYSLNKGIDGEEKLAGKLSDEKERTMEKAAVEEKIEMLESHODADIEDFPAKKELE 606
DB 542 LESVAYNMKATVED-EKLGKRIINDEDKOKIIDKCNELIISWLDKNQVAEKKEEFPHOKELE 600
QY 607 EIVQPIISKLKYSAGCPPPG 626
DB 601 KVCNPITITRLYOSAGMPGG 620

RESULT 8
US-08-441-139-5
: Sequence 5, Application US/08441139
: Patent No. 577325
: GENERAL INFORMATION:
: APPLICANT: Wiltup, Dr. Karl D.
: APPLICANT: Robinson, Anne S.
: TITLE OF INVENTION: METHODS FOR INCREASING SECRETION OF
: NUMBER OF SEQUENCES: 20
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
: STREET: 400 Garden City Plaza
: CITY: Garden City
: STATE: NY
: COUNTRY: USA
: ZIP: 11530
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/441,139

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: FILING DATE: 15-MAY-1995
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/089,997
: FILING DATE: 06-JUL-1993
: ATTORNEY/AGENT INFORMATION:
: NAME: DIGITAL, Frank S.
: REGISTRATION NUMBER: 31,346
: REFERENCE/DOCKET NUMBER: 8646
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 516-742-4343
: TELEFAX: 516-742-4366
: TELETYPE: 230 901 SANS OR
: INFORMATION FOR SEQ ID NO: 5:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 679 amino acids
: TYPE: amino acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: US-08-441-139-5

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Query Match      64.0%; Score 2065.5; DB 1; Length 679;
Best Local Similarity 65.4%; Pred. No. 1.5e-163;
Matches 403; Conservative 90; Mismatches 118; Indels 5; Gaps 4;

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QY 7 EDYGVTVGIDLTGTVSCVGVFNGRVEITANDOGNRTTPSVATPFGERTIGDAKNOL 66
DB 48 EDYGVTVGIDLTGTVSCVGVFNGRVEITANDOGNRTTPSVATPFGERTIGDAKNOL 106
QY 67 TSNPENTVEDAKRLIGRTWNPDSVOODIKFLPFYVEKTKPYIQVDIGGQTKTFAPEE 126
DB 107 ASNPKNTEIEDIKRLIGLQYNDPTVQRDIKHLPTVYVNGKNKPYEVETV -GGEKKEPTPEE 165
QY 127 ISAMVLTKKKTEAEVGLGKVTNAVTPAYFNDQROATDAGTIGLVNMTINEPRA 186
DB 166 VSGMTILGKKQIAEDYLKKTTHAVTPATFNDQROATDAGTIGLVNMTINEPRA 225
QY 187 AATAYGLDKRREGKNTLVFDLGGTFDVSLLTNDGVEPVATNGDTHLGGEDFDQRMV 246
DB 226 AATAYGLDKRREGKNTLVFDLGGTFDVSLLTNDGVEPVATNGDTHLGGEDFDQRMV 285
QY 247 HFILYKAKKTKGDKVRKNRAVOKLRREVEKAKRALSQHQARIETESFEGEDSEETLR 306
DB 286 HFQQLQKKHDLQVTKNDKAMAKLRREVEKAKRALSQHQARIETESFEGEDSEETLR 345
QY 307 AKREBELNDLFRSTAKPVQKLEDSDLKSDIDEIVLYGSTRIPKIQOLVKEFNGKEP 366
DB 346 AKREBELNDLFRSTAKPVQKLEDSDLKSDIDEIVLYGSTRIPKIQOLVKEFNGKEP 405
QY 367 SRGINDPDAVGAAGVAVGLSGDQDTGDLVLDVCPLLTIGIEVGVGMKLLIPRNTVP 426
DB 406 SKGINDPDAVGAAGVAVGLSGDQDTGDLVLDVCPLLTIGIEVGVGMKLLIPRNTVP 465
QY 427 TKKSQIFSTASDNQPIVTKYVEGERPLTKDNHLGTFDLTGIPPARGCPQLEVFIED 486
DB 466 TKKSQIFSTASDNQPIVTKYVEGERPLTKDNHLGTFDLTGIPPARGCPQLEVFIED 525
QY 487 VNGILRVTAEDKGTGNKKTITNDONRLTPEETIRMANDAEKAFAEDKLLKRLITRNE 546
DB 526 ANGLIVTSATDKDTGKSESITJANDKGRSLDQDDIDRMVEAEKFAADAFKAKSEARN 585
QY 547 LBSYAVSLKNOIGDKKLGKLSDEKTEMEKAAVEKTEMLIESQD -ADIEDTKAKKEL 605
DB 586 FENFVHVYKNSVNG -ELAEIMDEDDKETVLIDNVNESLEWLEDSVALEADEDEEKWAS 643
QY 606 EETIOPILSKLYGSAG 621
DB 644 KESVEPIAKASASG 659

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RESULT 9
US-08-797-358B-3

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: Sequence 3, Application US/08797358B
: Patent No. 6268478
: GENERAL INFORMATION:
: APPLICANT: Adams, John
: TITLE OF INVENTION: INTRACELLULAR VITAMIN D BINDING PROTEIN
: NUMBER OF SEQUENCES: 9
: CORRESPONDENCE ADDRESSES:
: ADDRESSEE: Campbell & Flores LLP
: STREET: 4370 La Jolla Village Drive, Suite 700
: CITY: San Diego
: STATE: California
: COUNTRY: United States
: ZIP: 92122
: COMPUTER READABLE FORM:
: MEDIUM TYPE: floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.25
: CURRENT APPLICATION DATA: US/08/797,358B
: FILING DATE: 11-Feb-1997
: CLASSIFICATION: <Unknown>
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 60/011,491
: FILING DATE: 12-FEB-1996
: ATTORNEY/AGENT INFORMATION:
: NAME: Campbell, Cathryn A.
: REGISTRATION NUMBER: 31,815
: REFERENCE/DOCKET NUMBER: P-CE 3165
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (619) 535-9001
: TELEFAX: (619) 535-8949
: INFORMATION FOR SEQ ID NO: 3:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 643 amino acids
: TYPE: amino acid
: STRANDEDNESS: unknown
: MOLECULE TYPE: protein
: SEQUENCE DESCRIPTION: SEQ ID NO: 3:
: US-08-797-358B-3

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Query Match      60.1%; Score 1938; DB 3; Length 643;
Best Local Similarity 61.7%; Pred. No. 5.8e-153;
Matches 379; Conservative 107; Mismatches 122; Indels 6; Gaps 5;

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QY 13 VGIDLTGTVSCVGVFNGRVEITANDOGNRTTPSVATPFGERTIGDAKNOLTSNPN 72
DB 9 VGIDLTGTVSCVGVFNGRVEITANDOGNRTTPSVATPFGERTIGDAKNOLTSNPN 67
QY 73 TVFDKRLIRRTWNPDSVOODIKFLPFYVEKTKPYIQVDIGGQTKTFAPEISAMVL 132
DB 68 TVFDKRLIRRTWNPDSVOODIKFLPFYVEKTKPYIQVDIGGQTKTFAPEISAMVL 126
QY 133 TKKTEAEVGLGKVTNAVTPAYFNDQROATDAGTIGLVNMTINEPRAALANG 192
DB 127 SKKTEAEVGLGKVTNAVTPAYFNDQROATDAGTIGLVNMTINEPRAALANG 186
QY 193 LDKR -EGEKNIILVFDLGGTFDVSLLTNDGVEPVATNGDTHLGGEDFDQRMVEIKL 251
DB 187 LDKR -EGEKNIILVFDLGGTFDVSLLTNDGVEPVATNGDTHLGGEDFDQRMVEIKL 246
QY 252 YKKKTKGDKVRKNRAVOKLRREVEKAKRALSQHQARIETESFEGEDSEETLRKAFEE 311
DB 247 FRRHRHRLDSWNKRALRLRTACERAKRLLSSQVATLEIDSLFEGVDFTSTIRAFEE 306
QY 312 LNDLFRSTAKPVQKLEDSDLKSDIDEIVLYGSTRIPKIQOLVKEFNGKEPNSGIN 371
DB 307 LGSDFRSTLEPEPEKLRDAKLAHIDVYLYGSTRIPVQKLLDQDFNGKELKNSIN 366
QY 372 PDEAVVAGAAVQAGVSGD -QDTGDLVLDVCPLLTIGIEVGVGMKLLIPRNTVPTRK 429
DB 367 PDEAVVAGAAVQAGVSGD -QDTGDLVLDVCPLLTIGIEVGVGMKLLIPRNTVPTRK 426

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0Y      430 SOLEFASNOPIWITKVEGERPLTKDNLGTFDLTGPPAPRGVPOLEVFEEDVWG 489
       :|::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
Db      427 TOFFETYSDNQOGVFIQYIEGERAMTRKNMLLGRFELSGIPPARPGVPQIJEVFDIDANG 486
                                :|::|||::|||::|||::|||::|||::|||::|||
0Y      490 ILHVAIEDKGTOGNKKKITTTNDQNLFPEETERMVDNAERPAEBDKLKERIDTNELES 549
                                :|::|||::|||::|||::|||::|||::|||::|||
Db      487 ILSVTATDSTGRANKRITTNDNGRLSKSEEVERMAREADYO KKEDEMDORRVAAKNSLT 546
                                :|::|||::|||::|||::|||::|||::|||::|||
0Y      550 YASLKNQIGDEKLGKLKISEDEKFTMKAVEEKEIWLSEHDADIIDFAFKKKELEEIV 609
       :|::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
Db      547 HVEHVAGSL-QEESLRDKPKREDRAKVGDQCQEVYLAWEHNQLADKREYEHOKARELOJC 605
                                :|::|||::|||::|||::|||::|||::|||::|||
0Y      610 OPTIKSYGSAGP 623
       :|::|||::|||::|||::|||::|||::|||::|||
Db      606 RLFSLRJGGGVFP 619
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RESULT 10
US-08-214-583-2
; Sequence 2, Application US/08214583
; Patent No. 5627039
; GENERAL INFORMATION:
    APPLICANT: Pereira-Smith, Olivia
    APPLICANT: Madina, Renu
    TITLE OF INVENTION: MORTALIN AND METHODS FOR DETERMINING
    NUMBER OF INVENTION: COMPLEMENTATION GROUP ASSIGNMENT OF CANCER CELLS
    NUMBER OF SEQUENCES: 2
    CORRESPONDENCE ADDRESS:
        ADDRESSEE: Howrey & Simon
        STREET: 1299 Pennsylvania Ave, NW
        CITY: Washington
        STATE: DC
        COUNTRY: US
        ZIP: 20004
    COMPUTER READABLE FORM:
        MEDIUM TYPE: Floppy disk
    COMPUTER: IBM PC compatible
    OPERATING SYSTEM: PC-DOS/MS-DOS
    SOFTWARE: PatentIn Releasee #1.0, Version #1.25
    CURRENT APPLICATION DATA:
        APPLICATION NUMBER: US/08/214,583
        FILING DATE:
            CLASSIFICATION: 435
            ATTORNEY/AGENT INFORMATION:
                NAME: Auerbach, Jeffrey I.
                REGISTRATION NUMBER: 32,680
                TELECOMMUNICATION INFORMATION:
                    TELEPHONE: 202-383-7451
                    TELEFAX: 202-383-6610
            INFORMATION FOR SEQ ID NO: 2:
                SEQUENCE CHARACTERISTICS:
                    LENGTH: 679 amino acids
                    TYPE: amino acid
                    STRANDEDNESS: single
                    TOPOLOGY: linear
                MOLECULE TYPE: protein
                HYPOTHEetical: NO
                ORIGINAL SOURCE:
                    ORGANISM: Murine
                    IMMEDIATE SOURCE:
                        CLONE: mortalin
US-08-214-583-2

Query Match          48.0%; Score 1547.5; DB 1; Length 679;
Best Local Similarity 51.2%; Pred. NO. 2.2e-120;
Matches 333; Conservative 101; Mismatches 163; Indels 53; Gaps 14.

0Y      10 GTAVGIDLDGTVTCVCVCFKNGKVEILIANDOGNRTTPSVAFTEPCGEILLIDAKNOLTSN 69
       |||||||| ||| ::::: ||| ||| ||| ||| ::|||
Db      53 GAAYGIDLDGTNSCAVMMEGKAQALEMBEGARITTPSVAFTEADGELVAMPARKQAATVN 112
       ||||| ||| ||| ::::: ||| ||| ||| ||| ::|||

0Y      70 PENTVEDAKRLIGRTWNDSVOODIKFLPFKVEVKRTKPYIOVDIGCGQTKEAPEBISA 129

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Db	113	PNNFEATKRIILGRYDDPEVQKTKVNPRIY-RASNDAMVEAHG---KLYSPQIGA	168
Oy	130	MVLTKKKEAEVYLCRKKTHAVVTVPATFENDADQROTACGATAGLNVRIINTEPAAI	189
Db	169	EYLMKKKEAEVYLTGHTKKNAVITVPATFNDSSORATKAGOSGLNVRIINTEPAAI	228
Oy	190	AVGLDRREKNIILFEDJGGTFPVSLLTIDNCEVFEVNAVNDGTHIGCEDPQRMHEFI	249
Db	229	AVGLDKSE-DKVIAYVDLGGGTFDIISLEIOKGVFEVKSNTDFTLGGEDPDQALRIIV	287
Oy	250	KLYKKTKGQDVAKDNRAVOKLRREVEKAKKALLSSOQARLEIESPEGEDFS-----ET	303
Db	288	KEKRRTGVDLTKDNMALQRYREAEKAKKALLSSVQTDNLN- ¹ LTMDASGRPHLNMK	345
Oy	304	LTRAKKEELNMDLFRSTKPYQKVLVEDSDLKKSDIDEIYLVGSGTRIKIQQLYKFEFG	363
Db	346	LTRAGEGIVTDLIRRTIAPCOKAMQAEVKSQDIGVILVGMTRMPKVOQTVDLFE-G	404
Oy	364	KEBSRGINDEAVGAAGVAGVLSGDDPTGDLVLDYCELTGTFITVGVGVTXILPNT	423
Db	405	RASKKVNDEVAIGALIGGVLAG-DVTDVLLDVPPLSGLEITLGGFTFKLIINT	462
Oy	424	VVEFKKSQJFSTASNOPTVTIKVDESERPLTKDNHLGTFDLTGIPAPRGVPOIEVTF	483
Db	463	TIPTKSYSTFAADGQYQVEIKVCGSERMAGDNKLLGGFTLIGIPAPRGVPIEVTF	522
Oy	484	EIDVGNILAVTADEDCGTGNKKKITTNDQNRLPDELEERVYNDAEKFAEDKKLKERT--	541
Db	523	DIDANGIVHVASKMDGTGREDOIVY-OSSGLSKDIDENNVKNAEYAEODRKKEREVA	581
Oy	542	-----DTNELESY-----AVSLKNQIGKELGKLSSEDKETMEKAVEKI	584
Db	582	VNMAEGIIIDTETKMEEPKEDQLPADECNKLIKESISKVRLALLAKDSETEINRQAA----	637
Oy	585	EMLESHODADIEDFKAKKKELEETVOPILKIGSGAPPTGP--DDTME	632
Db	638	---SSLDQASLKLFEAYTKM-----ASBRBS-GSSGTGEOKEDONE	676

RESULT 11

US-09-134-001C-3646

Sequence 3646, Application US/09134001C

Patent No. 6380370

GENERAL INFORMATION:

APPLICANT: Lynn Doucette-Stamm et al

TITLE OR INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCC

FILE REFERENCE: GTC-007

CURRENT APPLICATION NUMBER: US/09/134_001C

CURRENT FILING DATE: 1998-08-13

PRIOR APPLICATION NUMBER: US 60/064,964

PRIOR FILING DATE: 1997-11-08

PRIOR APPLICATION NUMBER: US 60/055,779

PRIOR FILING DATE: 1997-08-14

NUMBER OF SEQ ID NOS: 5674

SEQ ID NO 3646

LENGTH: 616

TYPE: PRN

ORGANISM: Staphylococcus epidermidis

US-09-134-001C-3646

Query Match 46.9%; Score 1513; DB 4; Length 616;

Best Local Similarity 50.2%; Pred. No. 1,4e-117;

Matches 318; Conservative 106; Mismatches 157; Indels 52; Gaps 12;

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8 MGNVIDIDGTTTSCVSLIEDGDEPKVIONPBGARTIPSYVAF-KNENQVGVAKRQAIT 66

Oy 69 NPENTVYDAKKRLIGRTWMDPSYODIKFLPKVYEKKTKRPLYOVDIGSGQTKTAPETS 128

67 NP-NPQVQSIKRMHGIDY-----KVIDEG---KSYTPQELS 97


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Db 314 KHLNVKVSRAKLESLEDELVORTIEPCRTALKDAGLDVSDIHEVILVGGQTRMPLVOKTV 373
QY 358 KEFENGKEPESRGINPDEAVAYGAANVAGVLSGDQDTGDLVLDVCGPLTIGITVGVMTK 417
Db 374 AEFK-GKEARKDVNDDEAVAGAAIGAVLAG--DVKDVLLLDVTFPLTIGITLGGVMTG 430
QY 418 LIPRNTVVPTRKKSQIFSTASDNOPTVTIKVYEGEERPLTKDNHLLGTFDLTGIPAPRGVP 477
Db 431 LIEKNTTIPTRKKSQVFSTADONGAVTITHVLOGERKOAQONKSLGKFEDLADIPAPRGVP 490
QY 478 QLEVFTEIDVNGILRYTAEDKGTGNKKKITTNDONRLTPEIERMYNDAEKFAFEDKKL 537
Db 491 QLEVFTEIDANGILHVSADKATGKOOSIVI-KASSGSEDEIQOKVNDADANAEEDRRK 549
QY 538 KERIDTRNELESYAVSLKNOIGDKELGKLSSEDEKTEMKAVEEKIEWLSESHQDADIED 597
Db 550 BELAARNOGDALVHATRKMT--TEAGDKATADKATTEKALGELEAAYKGGDDKAETE- 605
QY 598 FKAKKELEIYOPILSKLYGSAG---PPPTGEEDTA 631
Db 606 --AKMNALSQASTPLAQKMYAEQAQGGEDAPQGBQAKA 641
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Search completed: September 30, 2003, 09:48:57
Job time : 17.4269 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 30, 2003, 09:47:38 ; Search time 26.8726 Seconds
(without alignments)
3564.123 Million cell updates/sec

Title: US-09-806-955a-2
Perfect score: 3225
Sequence: 1 MEEDKEDVGVGIDLGTT.....SKLYGACGPPTEEDTAEL 633

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 566894 seqs, 151307093 residues

Total number of hits satisfying chosen parameters: 566894

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA:*

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	3216	99.7	654	10	US-09-919-172-54 Sequence 54, Appl 1
2	3216	99.7	654	11	US-09-919-039-260 Sequence 260, Appl 1
3	3182.5	99.7	653	9	US-09-759-010-2 Sequence 2, Appl 1
4	2310.5	71.6	655	14	US-10-117-641-36 Sequence 36, Appl 1
5	2310.5	71.6	655	15	US-10-235-113-36 Sequence 36, Appl 1
6	2265.5	70.2	672	15	US-10-128-714-3107 Sequence 3107, Appl 1
7	2252.5	69.8	672	15	US-10-128-714-8107 Sequence 8107, Appl 1
8	2083	64.6	646	9	US-09-759-010-4 Sequence 4, Appl 1
9	2083	64.6	646	10	US-09-870-759-43 Sequence 43, Appl 1
10	2083	64.6	646	11	US-09-935-642-16 Sequence 16, Appl 1
11	2083	64.6	646	11	US-09-919-039-11 Sequence 11, Appl 1
12	2083	64.6	646	12	US-09-751-708A-43 Sequence 43, Appl 1
13	2083	64.6	890	15	US-10-100-957A-174 Sequence 174, Appl 1
14	2039.5	63.2	641	9	US-09-759-010-3 Sequence 3, Appl 1
15	2039.5	63.2	641	11	US-09-935-642-1 Sequence 1, Appl 1

	16	2039.5	63.2	641	11	US-09-919-039-146	Sequence 146, Appl 1
	17	2033.5 <td>63.1</td> <td>649</td> <td>12<th>US-10-259-165-214</th><th>Sequence 214, Appl 1</th></td>	63.1	649	12 <th>US-10-259-165-214</th> <th>Sequence 214, Appl 1</th>	US-10-259-165-214	Sequence 214, Appl 1
	18	2033.5 <td>63.1</td> <td>649</td> <td>12<th>US-10-259-165-350</th><th>Sequence 350, Appl 1</th></td>	63.1	649	12 <th>US-10-259-165-350</th> <th>Sequence 350, Appl 1</th>	US-10-259-165-350	Sequence 350, Appl 1
	19	2030	62.9	651	14 <th>US-10-108-605-75</th> <th>Sequence 75, Appl 1</th>	US-10-108-605-75	Sequence 75, Appl 1
	20	2028	62.9	651	11 <th>US-09-919-039-73</th> <th>Sequence 73, Appl 1</th>	US-09-919-039-73	Sequence 73, Appl 1
	21	2020	62.6	641	12 <th>US-10-316-253-97</th> <th>Sequence 97, Appl 1</th>	US-10-316-253-97	Sequence 97, Appl 1
	22	2019.5 <td>62.6</td> <td>642</td> <td>15<th>US-10-132-556A-2</th><th>Sequence 2, Appl 1</th></td>	62.6	642	15 <th>US-10-132-556A-2</th> <th>Sequence 2, Appl 1</th>	US-10-132-556A-2	Sequence 2, Appl 1
	23	2014	62.4	642	10 <th>US-09-761-538A-10</th> <th>Sequence 10, Appl 1</th>	US-09-761-538A-10	Sequence 10, Appl 1
	24	2011	62.4	641	12 <th>US-10-316-253-28</th> <th>Sequence 28, Appl 1</th>	US-10-316-253-28	Sequence 28, Appl 1
	25	1999.5 <td>62.0</td> <td>643</td> <td>11<th>US-09-847-208-61</th><th>Sequence 61, Appl 1</th></td>	62.0	643	11 <th>US-09-847-208-61</th> <th>Sequence 61, Appl 1</th>	US-09-847-208-61	Sequence 61, Appl 1
	26	1997.5 <td>61.9</td> <td>662</td> <td>15<th>US-10-234-432-75</th><th>Sequence 75, Appl 1</th></td>	61.9	662	15 <th>US-10-234-432-75</th> <th>Sequence 75, Appl 1</th>	US-10-234-432-75	Sequence 75, Appl 1
	27	1997.5 <td>61.9</td> <td>678</td> <td>15<th>US-10-234-432-38</th><th>Sequence 38, Appl 1</th></td>	61.9	678	15 <th>US-10-234-432-38</th> <th>Sequence 38, Appl 1</th>	US-10-234-432-38	Sequence 38, Appl 1
	28	1978	61.3	643	11 <th>US-09-919-039-204</th> <th>Sequence 204, Appl 1</th>	US-09-919-039-204	Sequence 204, Appl 1
	29	1974	61.2	665	9 <th>US-09-925-302-724</th> <th>Sequence 724, Appl 1</th>	US-09-925-302-724	Sequence 724, Appl 1
	30	1959	60.7	643	11 <th>US-09-733-179A-11</th> <th>Sequence 11, Appl 1</th>	US-09-733-179A-11	Sequence 11, Appl 1
	31	1927.5 <td>59.8</td> <td>651</td> <td>15<th>US-10-234-432-77</th><th>Sequence 77, Appl 1</th></td>	59.8	651	15 <th>US-10-234-432-77</th> <th>Sequence 77, Appl 1</th>	US-10-234-432-77	Sequence 77, Appl 1
	32	1924.5 <td>59.7</td> <td>649</td> <td>15<th>US-10-234-432-33</th><th>Sequence 33, Appl 1</th></td>	59.7	649	15 <th>US-10-234-432-33</th> <th>Sequence 33, Appl 1</th>	US-10-234-432-33	Sequence 33, Appl 1
	33	1860.5 <td>57.7</td> <td>628</td> <td>15<th>US-10-234-432-35</th><th>Sequence 35, Appl 1</th></td>	57.7	628	15 <th>US-10-234-432-35</th> <th>Sequence 35, Appl 1</th>	US-10-234-432-35	Sequence 35, Appl 1
	34	1716 <td>53.2</td> <td>541</td> <td>15<th>US-10-234-432-37</th><th>Sequence 37, Appl 1</th></td>	53.2	541	15 <th>US-10-234-432-37</th> <th>Sequence 37, Appl 1</th>	US-10-234-432-37	Sequence 37, Appl 1
	35	1502	46.6	610	9 <th>US-09-815-242-5559</th> <th>Sequence 5559, Appl 1</th>	US-09-815-242-5559	Sequence 5559, Appl 1
	36	1502	46.6	618	9 <th>US-09-815-242-12567</th> <th>Sequence 12567, A</th>	US-09-815-242-12567	Sequence 12567, A
	37	1502	46.6	618	9 <th>US-09-815-242-12970</th> <th>Sequence 12970, A</th>	US-09-815-242-12970	Sequence 12970, A
	38	1502	46.6	638	9 <th>US-09-815-242-10015</th> <th>Sequence 10015, A</th>	US-09-815-242-10015	Sequence 10015, A
	39	1502	46.6	638	9 <th>US-09-815-242-13713</th> <th>Sequence 13713, A</th>	US-09-815-242-13713	Sequence 13713, A
	40	1502	46.6	638	15 <th>US-10-181-654-10</th> <th>Sequence 10, Appl 1</th>	US-10-181-654-10	Sequence 10, Appl 1
	41	1501	46.5	637	9 <th>US-09-759-010-1</th> <th>Sequence 1, Appl 1</th>	US-09-759-010-1	Sequence 1, Appl 1
	42	1495	46.4	642	15 <th>US-10-269-557-15</th> <th>Sequence 15, Appl 1</th>	US-10-269-557-15	Sequence 15, Appl 1
	43	1495	46.4	642	15 <th>US-10-269-557-16</th> <th>Sequence 16, Appl 1</th>	US-10-269-557-16	Sequence 16, Appl 1
	44	1492	46.3	642	15 <th>US-10-269-557-13</th> <th>Sequence 13, Appl 1</th>	US-10-269-557-13	Sequence 13, Appl 1
	45	1491	46.2	637	9 <th>US-09-815-242-12058</th> <th>Sequence 12058, A</th>	US-09-815-242-12058	Sequence 12058, A

ALIGNMENTS

```
RESULT 1
US-09-919-172-54
: Sequence 54, Application US/09919172
: Patient No. US20020119463A1
: GENERAL INFORMATION:
: APPLICANT: Farris, Mary
: APPLICANT: Turner, Christopher M.
: TITLE OF INVENTION: PROSTATE CANCER MARKERS
: FILE REFERENCE: PA-0036 US
: CURRENT APPLICATION NUMBER: US/09/919.172
: PRIOR FILING DATE: 2001-07-30
: PRIOR APPLICATION NUMBER: 60/222,469
: NUMBER OF SEQ ID NOS: 102
: SOFTWARE: PERU Program
: SEQ ID NO 54
: LENGTH: 654
: TYPE: PRT
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: misc.feature
: OTHER INFORMATION: Incyte ID No. US20020119463A1 2993696CD1
US-09-919-172-54
```

```
Query Match 99.7%; Score 3216; DB 10; Length 654;
Best Local Similarity 100.0%; Pred. No. 2.9e-227;
Matches 631; Conservative 0; Mismatches 0; Indels 0; Gaps 0:

QY 2 EEDKEDVGVGIDLGTTGSCVGFENGRREITANDOGMRITPSVATPGEERLIGDA 61
DB 20 EEDKEDVGVGIDLGTTGSCVGFENGRREITANDOGMRITPSVATPGEERLIGDA 79
QY 62 AKNOLTSNDENTVPDAKRLIGRTWNDSVODIKFLPFKVEKKRTPYIOVDIGGGORT 121
DB 80 AKNOLTSNDENTVPDAKRLIGRTWNDSVODIKFLPFKVEKKRTPYIOVDIGGGORT 139
QY 122 FAPPEISANVLTKMETAEALYIGKKYHAYTVATYATYNDQROATDCTAGLWVMRI 181
DB 122 FAPPEISANVLTKMETAEALYIGKKYHAYTVATYATYNDQROATDCTAGLWVMRI 181
```

```
Db 140 FAPBEISAMVLTMMKETAAYLGKKVTHAVTVPAFENDAQROATKAGTACGLANMRTI 199
Oy 182 NEPTAAIAIYGLDKRGEKENILVFDLGGGTFDVSLLTIDNGVEEVATNGDTHLGGEDP 241
Db 200 NEPTAAIAIYGLDKRGEKENILVFDLGGGTFDVSLLTIDNGVEEVATNGDTHLGGEDP 259
Oy 242 QRVMEHFILYKKTKGDKVRKDNRAVQKLREVEKAKARALSSOHARIEIESFEYEGEDFS 301
Db 260 QRVMEHFILYKKTKGDKVRKDNRAVQKLREVEKAKARALSSOHARIEIESFEYEGEDFS 319
Oy 302 ETLTRAKFEELNMDLFRSTMKPVQKVLVEDSLKSSDIDELVVLGGSTRIPKIQOLYKKEF 361
Db 320 ETLTRAKFEELNMDLFRSTMKPVQKVLVEDSLKSSDIDELVVLGGSTRIPKIQOLYKKEF 379
Oy 362 NGKEPSRGINPDEAAVAYGAAGVLSGDDQDTGDLVLDVCPPLTIGIETVGGVMTKLIPR 421
Db 380 NGKEPSRGINPDEAAVAYGAAGVLSGDDQDTGDLVLDVCPPLTIGIETVGGVMTKLIPR 439
Oy 422 NTVPPTKKSQISTASDNOPTVTIKVYGERPLTKDNHLLGTEDLGIIPAPRGVQIEV 481
Db 440 NTVPPTKKSQISTASDNOPTVTIKVYGERPLTKDNHLLGTEDLGIIPAPRGVQIEV 499
Oy 482 TFEIDVNGILRYTAEDKGTGNKNTITNDQNRLLTPEIERMVNDAEKFAEDDKLKERI 541
Db 500 TFEIDVNGILRYTAEDKGTGNKNTITNDQNRLLTPEIERMVNDAEKFAEDDKLKERI 559
Oy 542 DTNNELESAYSLKNOIGDKELGKLSSEDEKTEMEKAVEKEIEMLESHODADIEDFKAK 601
Db 560 DTNNELESAYSLKNOIGDKELGKLSSEDEKTEMEKAVEKEIEMLESHODADIEDFKAK 619
Oy 602 KKELEIYQPIISKLYGSAGPPTEEDTAE 632
Db 620 KKELEIYQPIISKLYGSAGPPTEEDTAE 650
```

```
RESULT 2
US-09-919-039-260
: Sequence 260, Application US/09919039
: Publication No. US20030108871A1
: GENERAL INFORMATION:
: APPLICANT: Kaseer, Matthew R.
: TITLE OF INVENTION: GENES EXPRESSED IN TREATED HUMAN C3A LIVER CELL CULTURES
: FILE REFERENCE: PA-0035 US
: CURRENT APPLICATION NUMBER: US/09/919,039
: PRIOR FILING DATE: 2002-09-09
: PRIOR APPLICATION NUMBER: 60/222,113
: NUMBER OF SEQ ID NOS: 401
: SOFTWARE: PERL Program
: SEQ ID NO 260
: LENGTH: 654
: TYPE: PRT
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: misc_feature
: OTHER INFORMATION: Incyte ID No. US20030108871A1 2993696CD1
US-09-919-039-260
```

```
Query Match 99.7%; Score 3216; DB 11; Length 654;
Best Local Similarity 100.0%; Pred. No. 2,9e-227;
Matches 631; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 2 EEDKKEDVGTVVGIDGTTSCVGVFKNGRVEIILANDGNRITPVSVAFTPEGERLIGDA 61
Db 20 EEDKKEDVGTVVGIDGTTSCVGVFKNGRVEIILANDGNRITPVSVAFTPEGERLIGDA 79
Oy 62 AKNQLTSNPNVTFDAKRLIGRTMNDPSVOODIFLFPKVEKTKRYIOVDIGGGQTKT 121
Db 80 AKNQLTSNPNVTFDAKRLIGRTMNDPSVOODIFLFPKVEKTKRYIOVDIGGGQTKT 139
Oy 122 FAPBEISAMVLTMMKETAAYLGKKVTHAVTVPAFENDAQROATKAGTACGLANMRTI 181
Db 140 FAPBEISAMVLTMMKETAAYLGKKVTHAVTVPAFENDAQROATKAGTACGLANMRTI 199
```

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Oy 182 NEPTAAIAIYGLDKRGEKENILVFDLGGGTFDVSLLTIDNGVEEVATNGDTHLGGEDP 241
Db 200 NEPTAAIAIYGLDKRGEKENILVFDLGGGTFDVSLLTIDNGVEEVATNGDTHLGGEDP 259
Oy 242 QRVMEHFILYKKTKGDKVRKDNRAVQKLREVEKAKARALSSOHARIEIESFEYEGEDFS 301
Db 260 QRVMEHFILYKKTKGDKVRKDNRAVQKLREVEKAKARALSSOHARIEIESFEYEGEDFS 319
Oy 302 ETLTRAKFEELNMDLFRSTMKPVQKVLVEDSLKSSDIDELVVLGGSTRIPKIQOLYKKEF 361
Db 320 ETLTRAKFEELNMDLFRSTMKPVQKVLVEDSLKSSDIDELVVLGGSTRIPKIQOLYKKEF 379
Oy 362 NGKEPSRGINPDEAAVAYGAAGVLSGDDQDTGDLVLDVCPPLTIGIETVGGVMTKLIPR 421
Db 380 NGKEPSRGINPDEAAVAYGAAGVLSGDDQDTGDLVLDVCPPLTIGIETVGGVMTKLIPR 439
Oy 422 NTVPPTKKSQISTASDNOPTVTIKVYGERPLTKDNHLLGTEDLGIIPAPRGVQIEV 481
Db 440 NTVPPTKKSQISTASDNOPTVTIKVYGERPLTKDNHLLGTEDLGIIPAPRGVQIEV 499
Oy 482 TFEIDVNGILRYTAEDKGTGNKNTITNDQNRLLTPEIERMVNDAEKFAEDDKLKERI 541
Db 500 TFEIDVNGILRYTAEDKGTGNKNTITNDQNRLLTPEIERMVNDAEKFAEDDKLKERI 559
Oy 542 DTNNELESAYSLKNOIGDKELGKLSSEDEKTEMEKAVEKEIEMLESHODADIEDFKAK 601
Db 560 DTNNELESAYSLKNOIGDKELGKLSSEDEKTEMEKAVEKEIEMLESHODADIEDFKAK 619
Oy 602 KKELEIYQPIISKLYGSAGPPTEEDTAE 632
Db 620 KKELEIYQPIISKLYGSAGPPTEEDTAE 650
```

```
RESULT 3
US-09-759-010-2
: Sequence 2, Application US/09759010
: Patent No. US20010034042A1
: GENERAL INFORMATION:
: APPLICANT: Strivastava, Pramod K.
: TITLE OF INVENTION: COMPLEXES OF PEPTIDE BINDING FRAGMENTS OF HEAT-SHOCK
: FILE REFERENCE: 8449-135
: CURRENT APPLICATION NUMBER: US/09/759,010
: PRIOR FILING DATE: 2001-01-12
: NUMBER OF SEQ ID NOS: 11
: SOFTWARE: PatentIn Ver. 2.1
: SEQ ID NO 2
: LENGTH: 653
: TYPE: PRT
: ORGANISM: Homo sapiens
US-09-759-010-2
```

```
Query Match 98.7%; Score 3182.5; DB 9; Length 653;
Best Local Similarity 99.4%; Pred. No. 8.2e-225;
Matches 627; Conservative 0; Mismatches 3; Indels 1; Gaps 1;

Oy 2 EEDKKEDVGTVVGIDGTTSCVGVFKNGRVEIILANDGNRITPVSVAFTPEGERLIGDA 61
Db 20 EEDKKEDVGTVVGIDGTTSCVGVFKNGRVEIILANDGNRITPVSVAFTPEGERLIGDA 79
Oy 62 AKNQLTSNPNVTFDAKRLIGRTMNDPSVOODIFLFPKVEKTKRYIOVDIGGGQTKT 121
Db 80 AKNQLTSNPNVTFDAKRLIGRTMNDPSVOODIFLFPKVEKTKRYIOVDIGGGQTKT 139
Oy 122 FAPBEISAMVLTMMKETAAYLGKKVTHAVTVPAFENDAQROATKAGTACGLANMRTI 181
Db 140 FAPBEISAMVLTMMKETAAYLGKKVTHAVTVPAFENDAQROATKAGTACGLANMRTI 199
Oy 182 NEPTAAIAIYGLDKRGEKENILVFDLGGGTFDVSLLTIDNGVEEVATNGDTHLGGEDP 241
Db 200 NEPTAAIAIYGLDKRGEKENILVFDLGGGTFDVSLLTIDNGVEEVATNGDTHLGGEDP 259
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QY	24	QRMHEFIKLYKKKTKGDYKXKXNRAVOKLRREVEKAKALSSQHOARLEIESFEGEDFS	301
Db	260	QRMHEFIKLYKKKTKGDYKXKXNRAVOKLRREVEKAKALSSQHOARLEIESFEGEDFS	318
QY	302	ETLTRAKFEEIANDLERSTMYKPVQVLEDSDLKKSIDIEIYLVGGSFRIPIQOLVNEFF	361
Db	319	ETLTRAKFEEIANDLERSTMYKPVQVLEDSDLKKSIDIEIYLVGGSFRIPIQOLVNEFF	378
QY	362	NGKEPSKGINPDEANVAAGAAGVLSGDQDTGDLVLDVCPPLTGLGIEYGVGVTKLIPR	421
Db	379	NGKEPSKGINPDEANVAAGAAGVLSGDQDTGDLVLDVCPPLTGLGIEYGVGVTKLIPR	438
QY	422	NTVVPKRSQIFSTASDNOPTVTIYVGESERLTKDNHLLGTFPLTGIPPAKRGVPDIEV	481
Db	439	NTVVPKRSQIFSTASDNOPTVTIYVGESERLTKDNHLLGTFPLTGIPPAKRGVPDIEV	498
QY	482	TFEIDYNGILRYAEDKGTGNKNKLTITINDQNRLLPEEIEPMVDAEKFAEDKKLERI	541
Db	499	TFEIDYNGILRYAEDKGTGNKNKLTITINDQNRLLPEEIEPMVDAEKFAEDKKLERI	558
QY	542	DTFNELESTAYSILKNOIGDKERLGLHSDEKETWEKAVEEKIEMLESHODADIEDERAK	601
Db	559	DTFNELESTAYSILKNOIGDKERLGLHSDEKETWEKAVEEKIEMLESHODADIEDERAK	618
QY	602	KKELEETVOPITISKUYSAGSAPPTGEEDPAE	632
Db	619	KKELEETVOPITISKUYSAGSAPPTGEEDPAE	649

```

: RESULT 4
: US-10-117-641-36
: Sequence 36, Application US/10117641
: Publication No. US20020194640A1
: GENERAL INFORMATION:
: APPLICANT: MISTA, Santosh et al.
: TITLE OF INVENTION: PLANT PROMOTER DERIVED FROM LONJAL BINDING PROTEIN GENE AND METH
: TITLE OF INVENTION: ITS USE
: FILE REFERENCE: 62586
: CURRENT APPLICATION NUMBER: US/10/117,641
: CURRENT FILING DATE: 2002-04-03
: PRIOR APPLICATION NUMBER: 09/632,538
: PRIOR FILING DATE: 2000-08-04
: NUMBER OF SEQ ID NOS: 37
: SOFTWARE: PatentIn Ver. 2.1
: SEQ ID NO 36
: LENGTH: 655
: TYPE: PRT
: ORGANISM: Pseudotsuga menziesii
: US-10-117-641-36

```

Query Match	71.6%	Score 2310.5	DB 14	Length 655;
Best Local Similarity	70.3%	Pred. No. 6-5e-161,		
Matches 445;	Conservative 89;	Mismatches 94;	Indels 5;	Gaps 3.

OY	2	EEDKDVEDVGVGIDLGTTYSQCVGFKNKRGVEIIANDOGNRRITPSYAFTPEGECRLIGDA	61
Db	20	EEAKA--LCTVTIGDILGTTYSCGVGYFKNGHEIIANOGNRITPSSWAFT-DTERIGCEA	76
OY	62	AKKQLTNSENETVFPAKKRLRIGTMNDPVOODIKFLPFKEVVKTKPTFYVDIGGGQRT	121
Db	77	AKQAAMENPERIVFPVKKRLRGKYEDKKRYOKDIKLPRKYVNNDGRPTYDKLRDEIKV	136
OY	122	FAPBEISAWYLTKAKETAETAYIGCKKVTHAVYTVAFTNDORATDAGTAGLVNMTI	181
Db	137	FSPSEELSAAILLKMETESYIGRIKAAVTVAYFNDAROTADAGTAGLVNARI	196
OY	182	NEPTAAIAYGLDKREGEKENILVPDYGSTFDVSLITIDMGVEEVAATMDGTHLGEDPD	241
Db	197	NEPTAAIAYGLDKKGGEKNILVYDLGGCFDVSILITIDMGVEEVLTSDGTHLGEDPD	256
OY	242	QRMEHFITLYKKKTGKYRKDNRAVOKLREVEKAKARALSSQHARILESYEGEDS	301
Db	257	QRWMDFFILYKKKKHKHNRDKNLRLGREGCRARALSSQHARIVELESTLFDDVDS	316

Oy	302	EITLRAKFEELNMDLRPRSMKVQAVLEESDLAKRSDDIEIYLVGSGSRIPRIPOOLVFEF	361
Dd	317	EPILTRAFEEELNMDLPFKTLGPVKALADANOKREINELVLVGSGSRIRPVQOLLKDLF	376
Oy	362	NGKEPSRGINPDEAVAYGAAYOAGVLSGD--ODTGDIALLDYCPULJGLIEYGVGMTKLI	419
Dd	377	DGRKEPKGNVPDEAVAYGAAYOGGILLSEBGGEERKDILLDPVALPLSLGLEVGVGMKKLI	436
Oy	420	PRTVVPTKKSQFEASTASNOFPVIATKYEGSERPLTKONHLLGFDFDITGIAPPARGVPOI	479
Dd	437	PRMTVPIPTKKSQFFTYTQQOTTVSILIKVEGERSLTCKCRRELGFNFDSLGIAPPARGVPOI	496
Oy	480	EYMFELDVAINGILVTAEDKGCTGNKRKITTTDNQNLTPEELERRVANOEFKAFAEDRKIKE	539
Dd	497	EYTFEVDAMGILVNRWEDGKTKEKTEITITINDKGLSOELEERRKAEHEEFAEDRKYKD	556
Oy	540	RIDTRNELESYASLANOIGDKRELGGKLSSDGDETKMEKAVEEKILEWLESHQODADIEFK	599
Dd	557	KIDARNNLLEYVYNMKSSTINEKDLADKIDSDESKKEITAIKALEWLDNDQSAREDFE	616
Oy	600	AKKKELEEIYOPIISILYSAGRPGEEDTAE 632	
Dd	617	EKLREYEAIVCSPIITKOYEKGTGGSGSDGDEDE 649	

```

: RESULT 5
: US-10-235-113-36
: Sequence 36, Application US/10235113
: Publication No. US20030100748A1
: GENERAL INFORMATION:
: APPLICANT: Misra, Santosh et al.
: TITLE OF INVENTION: PLANT PROMOTER DERIVED FROM LUMINAL BINDING PROTEIN GENE AND M
: TITLE OF INVENTION: ITS USE
: FILE REFERENCE: 62667
: CURRENT APPLICATION NUMBER: US/10/235,113
: CURRENT FILING DATE: 2002-09-04
: PRIOR APPLICATION NUMBER: 10/117,641
: PRIOR FILING DATE: 2002-04-03
: PRIOR APPLICATION NUMBER: 09/632,538
: PRIOR FILING DATE: 2000-08-04
: NUMBER OF SEQ ID NOS: 43
: SOFTWARE: PatentIn Ver. 2.1
: SEQ ID NO 36
: LENGTH: 655
: TYPE: PRT
: ORGANISM: Pseudotsuga menziesii
: US-10-235-113-36

```

Query Match	71.6%	Score 2310.5	DB 15	Length 655
Best Local Similarity	70.3%	Pred. No. 6,5e-161		
Matches	445	Conservative	89	Mismatches 94; Indels 5; Gaps 3
QY	2	EDDKKEDVGTVAGIDIGTYYSCVGVYFKNGRVEIITANDQGNRIPTSYVAFTPEGGERLIGDA	61	
Db	20	EEAAK--LGVIVIGIDIGTYYSCVGVYKNGRHEIITANDQGNRIPTSPWAAK-DREIRIGERA	76	
QY	62	AKKQIUSNPENYAFQAKRLIGRTAMDPSVQODIKFLPPKVEKTKRKYIIVDVGCGOTRT	121	
Db	77	AKQAQMANPERYTFVDKRLRIGRKYEDKEVQGDILFLPYKYNKDGKRYIOVKRIRODELIV	136	
QY	122	FAPEEISAWYLITMKETAAVYLGKVVTAHYVTVAYRYENDQROQATKADGTIAGLNNRILI	181	
Db	137	FSEEEISAMILLKMETAEASYIGRKIKAAVYTVAYRYENDQROQATKAGVIAGLNNARI	196	
QY	182	NEPTAAAIAYGIDKREGKENILVPELGSGTFDVSILITIDNGVEVVAITNDGTHLGGEDD	241	
Db	197	NEPTAAAIAYGIDKREGKENILVYDLGSGTFDVSILITIDNGVEFVISTSGDTHLGGEDD	256	
QY	242	QRYMHEFIKLYKKKTKGDKVKNRAVQKLREVEKARALSSQHQARIEIESYBEEDPS	301	
Db	257	QRYMDFIKLYKKKHKHKKDKNRALGRLRECECRARALSSQHQVREIESIFLQVDPS	316	

Oy	302	ETTRAKKFEELNDDPRSMKPVQVLESDLKLKDEIDELVAGSTRIPICOLYVEF	3611
		: : : : : : : : : : : : : : : : : : :	
Dd	317	EPLTRARFEELNDDLFKKTLPVKKALDANLOKREINELVLVGSTRIRPVQLLKDF	3766
Oy	362	NCKEPRSGINPPEAVAYGAAYGCVLSGD - QDTSDVLLDYVCYLIGIEVGVMMKLI	4198
		: : : : : : : : : : : : : : : : : : :	
Dd	377	DGEENPKGNPPDEAAVAGAAYGGILTSGGGEDTKDILLDPAPJISLGITEVGVMMKLI	4366
Oy	420	PRTATVPYTKKSOLFSTASNDOPVTIVIKVYEGERPLTKDNHLLGTFTDLGIAPPARGVPOI	4798
		: : : : : : : : : : : : : : : : : : :	
Dd	437	PRMTVIPTKKSQVFYTYOQQDTVASIKVYEGERSLTRCRELGFVDLSGIPPARGVPOI	4966
Oy	480	EMNFEEIDVNGILATVTEEDKGCTGNKKKITTTNNONLTPEELERRVANAEKAEPDKLKE	5598
		: : : : : : : : : : : : : : : : : : :	
Dd	497	EMFVEDANGLTVRAEDKGKTKRKITTTNKGKLSOEELERRVAEKAELEEPAEDKKVKD	5566
Oy	540	RIDTRNELESYAVALNQIGDKREKLGSRLSEDKETMMEKAAVEKEIEMWLESHODADIEDFK	5998
		: : : : : : : : : : : : : : : : : : :	
Dd	557	KIDARNNLLEYVVNMKSTINEKDCLADKDISDEDKKEITAIKEALEWLDDNOESAERDFE	6166
Oy	600	AKKKELEEIYOPILSLKLYSAGBPPTGEDTAEE 632	
		: : : : : : : : : : : : : : : : : : :	
Dd	617	EKLKEYEAVCSPIITKOVIKTKTGCGSSGGDDDEE 649	

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RESULT 6
US-10-128-714-3107
; Sequence 3107, Application US/10128714
; Publication No. US20030119013A1
GENERAL INFORMATION:
APPLICANT: Jiang, Bo
APPLICANT: Hu, Wengui
APPLICANT: Tishkoff, Daniel
APPLICANT: Zamudio, Carlos
APPLICANT: Eroskhin, Alexey M
APPLICANT: Lemieux, Sebastien M
TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus and
FILE REFERENCE: 10182-018-999
CURRENT APPLICATION NUMBER: US/10/128,714
CURRENT FILING DATE: 2002-04-23
PRIOR APPLICATION NUMBER: US 60/285,697
PRIOR FILING DATE: 2001-04-23
PRIOR APPLICATION NUMBER: US 60/287,066
PRIOR FILING DATE: 2001-04-27
PRIOR APPLICATION NUMBER: US 60/295,890
PRIOR FILING DATE: 2001-06-05
PRIOR APPLICATION NUMBER: US 60/303,899
PRIOR FILING DATE: 2001-07-09
PRIOR APPLICATION NUMBER: US 60/316,362
PRIOR FILING DATE: 2001-08-31
NUMBER OF SEQ ID NOS: 8603
SOFTWARE: PatentIn version 3.1
SEQ ID NO 3107
LENGTH: 672
TYPE: PRF
ORGANISM: Aspergillus fumigatus
US-10-128-714-3107

Query Match          70.2%; Score 2265.5; DB 15; Length 672;
Beat Local Similarity 69.8%; Pred. No. 1.3e-157;
Matches 440; Conservative 89; Mismatches 94; Indels 7; Gaps 5;

QY      2 EEK-KEDVGYVGIDLTGTTSCVGRFKNGAVETIANDCGNRITPSTVAFTTEGERLIGD 60
        III ::::IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
DB      40 EESVDSVGVGTIGIDLCTTSCVGMONGVELIANDCGNRRITPSTVAFTTE-BRLVD 98
        II:::IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII

QY      61 AAKNOILTSNPENTVPDARLLISRTNDPSVOODIKFLPFYIVVEKKRPYIOVDIGSGOTK 120
        IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
DB      99 AAANOQYSANPTFTFDIKRILGRKDDKDQXDAKNPNPYVVAKKDKKPVVKEV-NKSPK 157
        I:::IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII

QY      121 TFAPELSAMVLTKKKEIAEALGLKKYTHAAVVTYPATFNDAQQTAKDGAGTAGLVARI 180
        I:::IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII

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Db	158	IFPPEEVSAAVYLGKMDIDEGYLGKKVTHAAVTVPAZYFNDAQROATKDAGIAGLANLAV	217
Qy	181	INPPTAAALAYGDKRECEKNTLVPDLDGGTGDVSLTLIDNGVEVAATNGDTHLGGEDE	240
Db	218	VNEPTAAALAYGDKRGDEBNVIVYDLDGGTGDVSLSDNGVEVATAGDTHLGGEDE	277
Qy	241	DQNVHEHPIKTLKKTKRGKRVKRDNAVOKLREVBKARALASSOHARIELESYBEEDE	300
Db	278	DHRVMYFQYOKYKKKHNVDYSKDLAMGLKREVBKARTLSOSSMSTRIELESFHNEDE	337
Qy	301	SETLTRAKEEELNMDLFRSPMKPVOKVLESDSLKSSDIDEIVLVGGSTRIPKIQOLVEE	360
Db	338	SETLTRAKEEELNMDLFEKTKLPVEQVLKDAVKKSDVNDVILVGGSTRIPKVOALLEE	397
Qy	361	FNKEBERSGINPEEAVAYCAVOACVLSODDQGTGLVLDVCPITLGIETFGVGMFLIP	420
Db	398	EGGKASKSGINDPEEAVAPAAVGGVLTSEBEGTGVYLMQVNPILTLGIETFGVGMFLIP	457
Qy	421	RNVVPTKKSQIISTASDNQPTVITKIVYEGEPRLTKDMLHLLGTDLGLGIPAPRGVQIE	480
Db	458	RNVVPTKKSQIISTASDNQPTVILQVYEGERSLTKDMLHLLGTDLGLGIPAPRGVQIE	517
Qy	481	VFEIIVDNGILRTVTAEDCKGTGNKNTITTDQNRILTPREIERMNVDAEKPAAEDKLIKER	540
Db	518	VSFDLANGILKTKASADCKGTGKAESITITINDGRISOEIERMVAEEAEFEEDBAIKAK	577
Qy	541	IDRNPTELESYSLKQNIIDGKEKLGKSSBPKETMEKVAEKEKTELESH-QDADIDPK	599
Db	578	IEARNSLLENATSKNQVNDENGLOQIDDEDKQIIDLAVKEVYDMLDNNATATYTDFFE	637
Qy	600	AKKKELEIYOPTISKLTYGSACPPPGED	629
Db	638	EKEQSLNVAVPTISKLYGSA--PADDED	664

```

RESULT 7
US-10-128-714-8107
: Sequence 8107, Application US/10128714
: Publication No. US20030119013A1
: GENERAL INFORMATION:
: APPLICANT: Jiang, BO
: APPLICANT: Hu, Wengli
: APPLICANT: Tishkoff, Daniel
: APPLICANT: Zamudio, Carlos
: APPLICANT: Eroshtkin, Alexey M
: APPLICANT: Lemieux, Sebastien M
: TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus and
: TITLE OF INVENTION: Methods of Use
: FILE REFERENCE: 10182-018-999
: CURRENT APPLICATION NUMBER: US/10/128-714
: CURRENT FILING DATE: 2002-04-23
: PRIOR APPLICATION NUMBER: US 60/285,697
: PRIOR FILING DATE: 2001-04-23
: PRIOR APPLICATION NUMBER: US 60/287,066
: PRIOR FILING DATE: 2001-04-27
: PRIOR APPLICATION NUMBER: US 60/295,890
: PRIOR FILING DATE: 2001-06-05
: PRIOR APPLICATION NUMBER: US 60/303,899
: PRIOR FILING DATE: 2001-07-09
: PRIOR APPLICATION NUMBER: US 60/316,362
: PRIOR FILING DATE: 2001-08-31
: NUMBER OF SEQ ID NOS: 8603
: SOFTWARE: PatentIn version 3.1
: SEQ ID NO 8107
: LENGTH: 672
: TYPE: PRT
: ORGANISM: Aspergillus fumigatus
US-10-128-714-8107
Query Match 69.8% Score 2252.5; DB 15; Length 672;
Best Local Similarity 69.5% Pred. No. 1.2e-156;
Matches 438; Conservative 90; Mismatches 95; Indels 7; Gaps 5;

```

QY 2 EEDK-KEDVGVNIDIGTTCVGVFKNGRVEIINADGNITPSYAFPEGERLLGD 60
DB 40 EEDSVQEVNIGTVISIDIGTTCVGVQWNGKVEIINADGNITPSYAFPEDE-ERLGD 98
QY 61 AAKNOL7SNPENVFADAKRLIGRTWMDPSVQODIKFLPKRVVEKTKPYIQVDIGGQTK 120
DB 99 AAKNOVASNPRTIFEDIRLIRLIGRFPDDKQVOKAKNFPEKVVNKGSKPVPKVEY-NKSPK 157
QY 121 TPAPPEISAMVLTAKETAAYIGKVTAAVTVPAVFENDAQORATKDAGTIAGLNVKRT 180
DB 158 IFTPEEVSAMVLMGKMAIEGYLGKVTAAVTVPAVFENDAQORATKAGTLAGLNVLRV 217
QY 181 INEPTAAIAVGLDKRGEKNILVFDLGGGTFVDSLITDNGVEEVATNGDPTHLGGEDE 240
DB 218 VNEPTAAIAVGLDKTDEHNVLYVDLGGGTFVDSLITDNGVEEVATNGDPTHLGGEDE 277
QY 241 DORWHEHFKLYKKKTKGDKVKNRAVOKLRREVAKRALSSQOARIEISFEGEDF 300
DB 278 DHRVMDIFVKQYNNKHNVDVSKDKAKGLKREVEKAKRTLSQMSSTRIEISFNGEDF 337
QY 301 SETTLRAKFEELNMDLFRSTMKPVOKVLEDSDLKSDIDEIYLVGGSTRIPKIQOLVKEF 360
DB 338 SETTLRAKFEELNMDLFRKTKLPVEQVLDKAVKSKSDVNDIYLVGGSTRIPKIQOLVKEF 397
QY 361 FNGKPEKSGINPDPAVAYGAAYOAGVLSGDQDGLVDVCPPLGIEFTVGVVTKLIP 420
DB 398 FGGKASGINDPAVAYGAAYOAGVLSGEGDGLVDVCPPLGIEFTVGVVTKLIP 457
QY 421 RNTVVPTRKKSQIFSTASDNOPTVYIKYEGEERPLTDNHLGTFDGLGIPAPRGVPOIE 480
DB 458 RNTVVPTRKKSQIFSTADNQPVLVIQVDEGERSLTRKDNHLGKFEELTGIPAPRGVPOIE 517
QY 481 VTFEDVNGILRVAFEDKGTGNKNTITTDONRLPPEEIERVYNDAEKFAEDKKLER 540
DB 518 VTFEDVNGILRVASASGKGAKESITITTDONRLPPEEIERVYNDAEKFAEDKAKIAK 577
QY 541 IDTRNELESYASLKNOIGKELGKLSSEDEKTEKAVEEIKEMLESH-ODADIEDFK 599
DB 578 IEARSLLENYAFSLKNOYBNDENGCGQIDEDDKOTILDVAKVEYTDLEDNATATTDEFE 637
QY 600 AKKKELEIYQPIITSKLYGSAGPPPEED 629
DB 638 EKKELSNVAITPITSKLYGSA---PADEED 664

RESULT 8
US-09-759-010-4
; Sequence 4, Application US/09759010
; Patent No. US20010034042A1
; GENERAL INFORMATION:
; APPLICANT: Sivasava, Pramod K.
; TITLE OF INVENTION: COMPLEXES OF PEPTIDE BINDING FRAGMENTS OF HEAT-SHOCK
; FILE REFERENCE: 8449-135
; CURRENT APPLICATION NUMBER: US/09/759,010
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 646
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-759-010-4

Query Match 64.6%; Score 2083; DB 9; Length 646;
Best Local Similarity 66.1%; Pred. No. 3e-144;
Matches 410; Conservative 97; Mismatches 107; Indels 6; Gaps 5;

QY 10 GTVVGIDIGTTCVGVFKNGRVEIINADGNITPSYAFPEGERLLIGDAKKNOL7SN 69
DB 4 GRAVGIDIGTTCVGVFOHKEVEIINADGNITPSYAFVFT-DTERLLIGDAKKNQVAMN 62
QY 70 PENTVFADAKRLIGRTWMDPSVQODIKFLPKRVVEKTKPYIQVDIGGQTKTFAPDEEISA 129

DB 63 PNTVFADAKRLIGRFPDVAVQSDMKHPMVYNDAGRPVQVEY-KGETSKSFYEEVSS 121
QY 130 MVLTKMKEIAEAYIGKVTAAVTVPAVFENDAQORATKDAGTIAGLNVKRIINEPTAAI 189
DB 122 MVLTKMKEIAEAYIGKVTAAVTVPAVFENDAQORATKDAGTIAGLNVKRIINEPTAAI 181
QY 190 AYGLDKRREG-EKNILVFDLGGGTFVDSLITDNGVEEVATNGDPTHLGGEEDQVMEHF 248
DB 182 AYGLDKKVAEARNVLEDLGGGTFVDSLITDNGVEEVATNGDPTHLGGEEDQVMEHF 241
QY 249 IKLYKKTKGDKVKNRAVOKLRREVAKRALSSQOARIEISFEGEDFSEFTLRK 308
DB 242 IAEFRKAKKOISEMKKAVRRLPACRARRKLTSSSQVQSIIEIDSLYEGIDFTYSITRAR 301
QY 309 FEELNMDLFRSTMKPVOKVLEDSDLKSDIDEIYLVGGSTRIPKIQOLVKEFNKESR 368
DB 302 FEELNMDLFRSTMKPVOKVLEDSDLKSDIDEIYLVGGSTRIPKIQOLVKEFNKESR 361
QY 369 GINPDEAVAYGAAYOAGVLSGD--QDPTGLVDVCPPLGIEFTVGVVTKLIPRTVVP 426
DB 362 SINPDEAVAYGAAYOAGVLSGDKSENVQDILLDVPPLGIEFTAGVTVLIKRTTIP 421
QY 427 TKKSQIFSTASDNOPTVYIKYEGEERPLTDNHLGTFDGLGIPAPRGVPOIEVTFEID 486
DB 422 TKQOTFTTYSNDQGVLIQVDEGERMTDNHLGKFEELTGIPAPRGVPOIEVTFEID 481
QY 487 VNGILRVTAEDKGTGNKNTITTDONRLPPEEIERVYNDAEKFAEDKKLERIDTRNE 546
DB 482 ANGIINVAAYVSKGKERTITITTDONRLPPEEIERVYNDAEKFAEDKKERDQVSSKS 541
QY 547 LESYASLKNOIGKELGKLSSEDEKTEKAVEEIKEMLESHODADIEDKAKKLE 606
DB 542 LESYASLKNOIGKELGKLSSEDEKTEKAVEEIKEMLESHODADIEDKAKKLE 600
QY 607 EIVQPIITSKLYGSAGPPPTG 626
DB 601 KVCNPIITKLYOSAGGMPG 620

RESULT 9
US-09-870-759-43
; Sequence 43, Application US/09870759
; Patent No. US20020177551A1
; GENERAL INFORMATION:
; APPLICANT: TERMAN, David S
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATMENT OF NEOPLASTIC DISEASE
; FILE REFERENCE: 870759
; CURRENT APPLICATION NUMBER: US/09/870,759
; PRIOR APPLICATION NUMBER: US/09/208,128
; PRIOR FILING DATE: 2000-05-30
; NUMBER OF SEQ ID NOS: 166
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 43
; LENGTH: 646
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-870-759-43

Query Match 64.6%; Score 2083; DB 10; Length 646;
Best Local Similarity 66.1%; Pred. No. 3e-144;
Matches 410; Conservative 97; Mismatches 107; Indels 6; Gaps 5;

QY 10 GTVVGIDIGTTCVGVFKNGRVEIINADGNITPSYAFPEGERLLIGDAKKNOL7SN 69
DB 4 GRAVGIDIGTTCVGVFOHKEVEIINADGNITPSYAFVFT-DTERLLIGDAKKNQVAMN 62
QY 70 PENTVFADAKRLIGRTWMDPSVQODIKFLPKRVVEKTKPYIQVDIGGQTKTFAPDEEISA 129
DB 63 PNTVFADAKRLIGRFPDVAVQSDMKHPMVYNDAGRPVQVEY-KGETSKSFYEEVSS 121
QY 130 MVLTKMKEIAEAYIGKVTAAVTVPAVFENDAQORATKDAGTIAGLNVKRIINEPTAAI 189

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Db 122 MVLTKKKEIAEAYLCKRTYTNNAVTPAFVNDISOQAKRKDAGTLAGLNVLRINEPAAAI 181
Qy 190 AYGLDKREG-EKNILVFDLGGTGPVSLITIDNCVFVAVTNGDTHLGEGDEPDQRYMEHF 248
Db 182 AYGLDKVGAERNVLIFFDLGGTGPVSLITIEDGIFEVKSTADTHLGEGDEPDQRYMEHF 241
Qy 249 IKLYKKTKGDKVRKNRAVOKLRREVEKAKALSSQOARIETIESFEGEDSEPTLTRAK 308
Db 242 IAEFKKHKHKKDISEKNRAVRRLRTACERAKRTSSQASIEIDSLYEGIDFTSTTRAR 301
Qy 309 FEELNNDLFRSTMKPVOKVLEDSDLKSDIDEIYLVGSTRIRKIQOLYKEFNKQEPSR 368
Db 302 FEELNNDLFRGLDPEVETALRKADKSDIHDYLVGSTRIRKIQOLYKEFNKQELNK 361
Qy 369 GINPDEAVAYGAAYOAGVLSGD--ODTGDLVLLVCPVTGIEFVGVMTKLIPRTVYP 426
Db 362 SINPDAVAYGAAYOAAIISGKSENVDLLLDVTPLSIGIEFAGVMVTLIKRRTIP 421
Qy 427 TKKSQIFSTASDNOPVTYIKYEGGERPLTKDNHLLGFDLTGIPAPRGVPOIEVTFEID 486
Db 422 TKQOTFTTYSNQGVLIOYEGGERAMTKDNHLLGFEELTGIPAPRGVPOIEVTFEID 481
Qy 487 VNGILRVTAEDKGTGNKNTITTDONRLPPEELERVNDAEKFAEDKKLKERIDTRNE 546
Db 482 ANGLVNSAVDSKSTGKENTITTNDKRLSKEDIERVOAEKKADEKQORVSKNS 541
Qy 547 LESYAVSLKNOIGDKELGKLSSEDEKTEMEKAVEEKIEMWLESHODADIEDFAKKELE 606
Db 542 LESYAFNMKATVED-EKLOGKINDEDKOKIILDKNEIILMDKNQTAKEKEPFOQKELE 600
Qy 607 EIVOPITIKLYGSAGPPPTG 626
Db 601 KVCNPITITKLYOSAGGMPG 620

RESULT 10
US-09-935-642-16
: Sequence 16, Application US/09935642
: Publication No. US20030044795A1
: GENERAL INFORMATION:
: APPLICANT: BYRJALSEN, Inger
: APPLICANT: LARSEN, Peter
: APPLICANT: STEPHEN, John
: TITLE OF INVENTION: Biochemical Markers for the Human
: FILE REFERENCE: 8969-014
: CURRENT APPLICATION NUMBER: US/09/935,642
: PRIOR FILING DATE: 2001-08-24
: PRIOR APPLICATION NUMBER: PCT/GB97/02394
: PRIOR FILING DATE: 1997-09-05
: PRIOR APPLICATION NUMBER: PCT/GB9707132.8
: PRIOR FILING DATE: 1997-04-08
: PRIOR APPLICATION NUMBER: PCT/GB9618600.2
: PRIOR FILING DATE: 1996-09-06
: NUMBER OF SEQ ID NOS: 16
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 16
: LENGTH: 646
: TYPE: PRT
: ORGANISM: Homo sapiens
US-09-935-642-16

Query Match 64.6%; Score 2083; DB 11; Length 646;
Best Local Similarity 66.1%; Pred. No. 3e-144;
Matches 410; Conservative 97; Mismatches 107; Indels 6; Gaps 5;
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Qy 10 GTVAGIDLTGTTSCVGVFNKGVREIITANDGNRTTPSVAFTEPGERLIGDAKNQJTSN 69
Db 4 GRAVGIDLTGTTSCVGVFNKGVREIITANDGNRTTPSVAFTEPGERLIGDAKNQJTSN 62
Qy 70 PENTVEDAKRLIGRTWMDSPVOODIKFLPFYVEKTKRPYIYOVDIGGQTKTFAPEEISA 129
Db 63 PNTVEDAKRLIGRTWMDSPVOODIKFLPFYVEKTKRPYIYOVDIGGQTKTFAPEEISA 129
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Db 63 PNTVEDAKRLIGRTWMDSPVOODIKFLPFYVEKTKRPYIYOVNDARPKVOVEY-KGETKSPPEEVS 121
Qy 130 MVLTKKKEIAEAYLCKRTYTNNAVTPAFVNDISOQAKRKDAGTLAGLNVLRINEPAAAI 189
Db 122 MVLTKKKEIAEAYLCKRTYTNNAVTPAFVNDISOQAKRKDAGTLAGLNVLRINEPAAAI 181
Qy 190 AYGLDKREG-EKNILVFDLGGTGPVSLITIDNCVFVAVTNGDTHLGEGDEPDQRYMEHF 248
Db 182 AYGLDKVGAERNVLIFFDLGGTGPVSLITIEDGIFEVKSTADTHLGEGDEPDQRYMEHF 241
Qy 249 IKLYKKTKGDKVRKNRAVOKLRREVEKAKALSSQOARIETIESFEGEDSEPTLTRAK 308
Db 242 IAEFKKHKHKKDISEKNRAVRRLRTACERAKRTSSQASIEIDSLYEGIDFTSTTRAR 301
Qy 309 FEELNNDLFRSTMKPVOKVLEDSDLKSDIDEIYLVGSTRIRKIQOLYKEFNKQEPSR 368
Db 302 FEELNNDLFRGLDPEVETALRKADKSDIHDYLVGSTRIRKIQOLYKEFNKQELNK 361
Qy 369 GINPDEAVAYGAAYOAGVLSGD--ODTGDLVLLVCPVTGIEFVGVMTKLIPRTVYP 426
Db 362 SINPDAVAYGAAYOAAIISGKSENVDLLLDVTPLSIGIEFAGVMVTLIKRRTIP 421
Qy 427 TKKSQIFSTASDNOPVTYIKYEGGERPLTKDNHLLGFDLTGIPAPRGVPOIEVTFEID 486
Db 422 TKQOTFTTYSNQGVLIOYEGGERAMTKDNHLLGFEELTGIPAPRGVPOIEVTFEID 481
Qy 487 VNGILRVTAEDKGTGNKNTITTDONRLPPEELERVNDAEKFAEDKKLKERIDTRNE 546
Db 482 ANGLVNSAVDSKSTGKENTITTNDKRLSKEDIERVOAEKKADEKQORVSKNS 541
Qy 547 LESYAVSLKNOIGDKELGKLSSEDEKTEMEKAVEEKIEMWLESHODADIEDFAKKELE 606
Db 542 LESYAFNMKATVED-EKLOGKINDEDKOKIILDKNEIILMDKNQTAKEKEPFOQKELE 600
Qy 607 EIVOPITIKLYGSAGPPPTG 626
Db 601 KVCNPITITKLYOSAGGMPG 620
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RESULT 11
US-09-919-039-11
: Sequence 11, Application US/09919039
: Publication No. US20030108871A1
: GENERAL INFORMATION:
: APPLICANT: Kaser, Matthew R.
: TITLE OF INVENTION: GENES EXPRESSED IN TREATED HUMAN C3A LIVER CELL CULTURES
: FILE REFERENCE: PA-0035 US
: CURRENT APPLICATION NUMBER: US/09/919,039
: PRIOR FILING DATE: 2002-09-09
: PRIOR APPLICATION NUMBER: 60/222,113
: PRIOR FILING DATE: 2000-07-28
: NUMBER OF SEQ ID NOS: 401
: SOFTWARE: PERL Program
: SEQ ID NO 11
: LENGTH: 646
: TYPE: PRT
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: misc.feature
: OTHER INFORMATION: Incyte ID No. US20030108871A1 1545176CD1
US-09-919-039-11
```

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Query Match 64.6%; Score 2083; DB 11; Length 646;
Best Local Similarity 66.1%; Pred. No. 3e-144;
Matches 410; Conservative 97; Mismatches 107; Indels 6; Gaps 5;

Qy 10 GTVAGIDLTGTTSCVGVFNKGVREIITANDGNRTTPSVAFTEPGERLIGDAKNQJTSN 69
Db 4 GRAVGIDLTGTTSCVGVFNKGVREIITANDGNRTTPSVAFTEPGERLIGDAKNQJTSN 62
Qy 70 PENTVEDAKRLIGRTWMDSPVOODIKFLPFYVEKTKRPYIYOVDIGGQTKTFAPEEISA 129
Db 63 PNTVEDAKRLIGRTWMDSPVOODIKFLPFYVEKTKRPYIYOVNDARPKVOVEY-KGETKSPPEEVS 121
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QY	130	MVLTKMEIYEAALYGGKVTVAAYTVPAVFPENDADROKATKAGTLAGLNMVRITINEPFAAAL	189
Db	122	MVLTKMEIYEAALYGGKVTVAAYTVPAVFPENDADROKATKAGTLAGLNMVRITINEPFAAAL	181
QY	190	AYGLDKREG--EKNLIVFEDLCGGTFPDVSLTIDNGVEVVAATNGDTHILGEGDDPDQRYMEHF	248
Db	182	AYGLDKVGVGERNVLIFDLGGTFPDVSLTIDNGVEVVAATNGDTHILGEGDDPDQRYMEHF	241
QY	249	IKLTKKTKGADVDRKDNVAOYKLRREVYKAKARALSSOHOARIELESFEEDESETJTRAK	308
Db	242	IAEKRKHKKDISNNKAAVRLRTACERAKRTLSSTSOASIEIDLXEGIDYPTSTTRAK	301
QY	309	FEELNMDLFSTYMKPVOKVLESDDLKKSIDELIVLVGGSTRIPKIQOLVKEFFNGKPSR	368
Db	302	FEELNMDLFSTYMKPVOKVLESDDLKKSIDELIVLVGGSTRIPKIQOLVKEFFNGKELNK	361
QY	369	GINPDEAVAAQAQAQAVLSGD--ODNGDVTLLDQVPLTIGITGVGVSMTKLIPRTVYF	426
Db	362	SINPDEAVAAQAQAQAVLSGDSENOVDLLDQVPLTIGITAGGVMTVLKRNITTP	421
QY	427	TKKSOIFSTASDNOPVTYIKVYEGEERPLTKDNHLSTFDLTGIPRAPRVPOLIEVFED	486
Db	422	TKOTQTFSTSDNOPGVLLIOVYEGEERAMTKDNMLKFEELTGIIPRAPRVPOLIEVFED	481
QY	487	VNGLIYRTAEDGKGGNKNKLTITNDONRLPRIEIERVANDAEKFAEDDKKIKERIDTRNE	546
Db	482	ANGILNVAISADKSTGKENKLTITNDGRSLKSEIERVQDAEYKFAEDDKRORUKSSKS	541
QY	547	LESYAVSLKNOIGDKKELKGLSSEDEKTEMEKAAVEERIEWLESQOADIIEFPAKKKLE	606
Db	542	LESYAFNMKNATVED--EKLOGKINDEOROKLYDKCNELIYNMLDKNOYAEKREDFEHQOKELE	600
QY	607	EIVQPIISKLKYGSGPPPG 626	
Db	601	KVCNPIITIKLYOSAGGMPGG 620	

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RESULT 12
US-09-751-708A-43
; Sequence 43, Application US/09751708A
; Publication No. US20030157113A1
; GENERAL INFORMATION:
; APPLICANT: TERMAN, David S
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATMENT OF NEOPLASTIC DISEASES
; FILE REFERENCE: 751708
; CURRENT PUBLICATION NUMBER: US/09/751,708A
; CURRENT FILING DATE: 2002-10-15
; PRIOR APPLICATION NUMBER: US 60/173,371
; PRIOR FILING DATE: 1999-12-28
; NUMBER OF SEQ ID NOS: 166
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 43
; LENGTH: 646
; TYPE: prt
; ORGANISM: Homo sapiens
US-09-751-708A-43

Query Match          64.6%; Score 2083; DB 12; Length 646;
Best Local Similarity 66.1%; Pred. No. 3e-144;
Matches 410; Conservative 97; Mismatches 107; Indels 6; Gaps 5;

QY      10 GTTATGIDLTGTTSCVGVFKNGRVEIIANDCGNRITPSYAFTPEGERLIGDAAKNOLTSN 69
        | | | | | : | | | | | : | | | | | : | | | | | : | | | | | : |
DB       4 GRAAGIDLGTTSCVGVFOHGKVEIILANDCGNRTTPSYAFT-DTERLLIGDAKNQVAAN 62

OY      70 PENNVFPAKRLIGRTMNDPVSVOODIKFLPKRYVEKKTRPIYVDIGGGOTKPFAPEISA 129
        | | | | | : | | | | | : | | | | | : | | | | | : | | | | | : |
DB      63 PTNVFPAKRLIGRFDDAVVGDSMKMPMYNVNDAGRPVQVEY-KGETKSTPYEVS    121

OY     130 MVLTAKMETAEAYIGKRVTHAAVTVPAYFENDAOROATKDAGTAGLVNMRITNEPTAAAI 189
        | | | | | : | | | | | : | | | | | : | | | | | : | | | | | : |
DB     122 MVLTAKMEIEAYIGKRVTHAAVTVPAYFENDSOROATKDAGTAGLVNRIINEPTAAAI 181

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OY	190	AYGDKREG - EKXIIIFEDJAGGTPVSLITLONGEVEAVNATNGTHLGGEDPQORVNEH	248
Db	182	ATGDKKVGKERNVLLFDJGGTFPVSJTLTJEDGJEVFKSTAGOTHLGEDPDRMVMHF	241
OY	249	IKLYKKKGKDVKRONRAVOKLRREYKAKRALSSOHOARIEISFYEGEDFSETLTRAK	308
Db	242	IAEKKRHKKDIISENKRVRRLRTACERAKRTLSSSTOASIEISLVEGDIFYSTRAR	301
OY	309	FEELNMDLFESTMKPKOXYLEDSDLKSDIDIEIYVGSTPIPKIOOLYKEFFNGKPSR	368
Db	302	FEELNMDLFESTLDPKALRDKAKLDRKSDIHDYIYVGSTPIPKIOQLDDPFNGKELM	361
OY	369	GINDENVAAGAIVQAGVLSGD - ODTGDLVLLDCPLTGLTIEVGVMMTKLIPRNVVP	426
Db	362	SINDEAVAAGAIVQAAITLSDGKSENVQDMLLDVPTLSLGTETAGVMMVILKRNTPIP	421
OY	427	TKKSQIFSTASDNQPVVTIKYIEGERPLTKDNHLGTFTDLTGIPPARGVQOIEVYFEID	486
Db	422	TKOQTFETTYSDNQPVLLQIYVEGERAMTKDNHLGKFELGIPPARGVQOIEVYFEID	481
OY	487	VNGILRTYAECDKGTGNKITTITTONRNLTPPEIERMVADAEKFAEDDKRIKERTDRNE	546
Db	482	ANGLINVAAYDKSTGKGNKITTITNDKGRSKEDIEMVQKAEKKAEDDKQORBVSKNS	541
OY	547	LESYASLKNQJGDKKEKLGKLSSEDKETEMEKAVEEKIEWLESHQDADIEDFAKKKELE	606
Db	542	LESYAFMKATVDED - EKLOGKINDEDKOKILDKCNEITIMDLDKNOTAEKEFEHOOKELE	600
OY	607	EIVQPIITKISGASGPPPTG 626	
Db	601	KVCNPIITIKIYSGAGMPPG 620	

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RESULT 13
US-10-100-957A-174
: Sequence 174, Application US/10100957A
: Publication No. US20030096322A1
: GENERAL INFORMATION:
: APPLICANT: Giuliano, Kenneth A.
: APPLICANT: Kapur, Ravi
: TITLE OF INVENTION: A System for Cell Based Screening
: FILE REFERENCE: 97-022-LIA
: CURRENT APPLICATION NUMBER: US/10/100,957A
: NUMBER OF SEQ ID NOS: 180
: SOFTWARE: Patentin Ver. 2.0
: SEQ ID NO 174
: LENGTH: 890
: TYPE: PRT
: ORGANISM: Artificial Sequence
FEATURES:
: OTHER INFORMATION: Description of Artificial Sequence: GFP-HSC70
US-10-100-957A-174

Query Match          64.6%; Score 2083; DB 15; Length 890;
Best Local Similarity 66.1%; Pred. No. 4,8e+14;
Matches 410; Conservative 97; Mismatches 107; Indels 6; Caps 5

QY      10 GTVAGIDLTGTVSCGVCFNGKRVFELLIANOGCRITPSVAFTPGERLIGDAKNOLTSN 69
        | | | | | | | | | | : | | | | | | | | | | | | | | | | | | | | |
DB      248 GRAVGIDLTGTTCVGFPHGKEVLIIANDQCGRITPSTVAFT-DTERLIGDAKNQVAA 306
        | | | | | | | | | | : | | | | | | | | | | | | | | | | | | | |

QY      70 PENTVPDAKRLIORTNDSPVOODIKFLPFKVVERKTPRYIQVDIGGGOTTFAPBEISA 129
        | | | | | | | | | | : | | | | | | | | | | | | | | | | | | | |
DB      307 PLTNVPDAKRLIRFPDDAVVGSDMKHMPFMVVNDAGRPKQVEY-KGETRKSFYEEVS 365
        | | | | | | | | | | : | | | | | | | | | | | | | | | | | | | |

QY      130 MLTKMERTAEALGKKHHAVVTYPAFYNDAQORATADACTINGLVMMRIINPTPAAL 189
        | | | | | | | | | | : | | | | | | | | | | | | | | | | | | | |
DB      366 MLTKMEIEALEALGTITNAVVTYPAFNFDSQRATDADCTINGLVNLRIINPTPAAL 425
        | | | | | | | | | | : | | | | | | | | | | | | | | | | | | | |

QY      190 AYGLDKREG-EKKIVLEFDJGGTGPVSLTTIDNGVFEEVATNCJTHGGEFDQRYWEHF 248
        | | | | | | | | | | : | | | | | | | | | | | | | | | | | | | |

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Db 426 AVGLDKKVGAEHNVLIPLDGGTDFVSLITIEDGTFEVRKSTAGDTHLGSEDFDNRMVNHF
Qy 249 IKLYKKKTKGVKRNRAVOKLREVEKAKRALSSQOARIETLESFEEDEPSSEITLTKK 308
Db 486 IAEFKKKKKKDISEKKNRVRRLTACEAKKTLSSSQASIEIDSLBEGDIFDSTTRK 545
Qy 309 FEELNADLFIRSTMKPVOKVLEDSDLKSDIDEIVLGVSGSTRIPKIQOLVKEFNCKEPSR 368
Db 546 FEELNADLFIRSTMKPVOKVLEDSDLKSDIDEIVLGVSGSTRIPKIQOLVKEFNCKEPSR 605
Qy 369 GINPDAAVYGAAYVAGVLSGD--ODTGDLVLLDVCPLTGTEFGVGMKILPRVTVP 426
Db 606 SINPDAAVYGAAYVAGVLSGD--ODTGDLVLLDVCPLTGTEFGVGMKILPRVTVP 665
Qy 427 TKKSFSTASDNPOTVTIKYEGEERPLTKDNLGTFEDLTGIPAPRGVPOIEVTFEID 486
Db 666 TKOTFTFTSDNQGVLQYVEGERATKDNNLGTFELTGIPAPRGVPOIEVTFEID 725
Qy 487 VNGILVTAEDKGTGNKKKITTNDONRLPEETERNVDAEKFAEDKKLKERIDTRRE 546
Db 726 ANGLVSAVDKSTGKRNKITTNDKGLSKEDIERVVOAEKTKADEKOROKVSSKMS 785
Qy 547 LESYAVSLKNOIGDEKLGKLSDEKETMEKAVEEKLWLESHODADIEDPRAKKKELE 606
Db 786 LESYAVSNMKAATVED-EKLOGKINDEKOKILDKNCENIINWLDKNQTAKEKEEFHQKELE 844
Qy 607 EIVOPITSLKYSGAGPPTG 626
Db 845 KVCNPIITTLVYOSAGMFG 864

RESULT 14
US-09-759-010-3
: Sequence 3, Application US/09759010
: Patent No. US20010034042A1
: GENERAL INFORMATION:
: APPLICANT: srtvastva, Pramod K
: TITLE OF INVENTION: COMPLEXES OF PEPTIDE BINDING FRAGMENTS OF HEAT-SHOCK
: FILE REFERENCE: 8449-135
: CURRENT FILING DATE: 2001-01-12
: NUMBER OF SEQ ID NOS: 11
: SOFTWARE: PatentIn Ver. 2.1
: SEQ ID NO 3
: LENGTH: 641
: TYPE: PRT
: ORGANISM: Homo sapiens
US-09-759-010-3

Query Match 63.2%; Score 2039.5; DB 9; Length 641;
Best Local Similarity 64.4%; Pred. No. 4.5e-141;
Matches 398; Conservative 105; Mismatches 108; Indels 7; Gaps 6;

Qy 13 VGIDLTGTTSCVGVFRKNGRVEIIANDQGNRTTPSYVAFTEGERLIGDAKKNQUTSNPN 72
Db 7 IGIDLTGTTSCVGVFRKNGRVEIIANDQGNRTTPSYVAFTEGERLIGDAKKNQUTSNPN 65
Qy 73 TYVEDAKRLIGRTWNPVSVOODIKFLPFVVEKTKRPYIQVDIGGGGTGTFAPETISAMVL 132
Db 66 TYVEDAKRLIGRTWNPVSVOODIKFLPFVVEKTKRPYIQVDIGGGGTGTFAPETISAMVL 124
Qy 133 TKKKEIAEAYLGKKTTHAVVTPAYFNDQROATKADGATAGLNVNRITINEPTAAIAVG 192
Db 125 TKKKEIAEAYLGKKTTHAVVTPAYFNDQROATKADGATAGLNVNRITINEPTAAIAVG 184
Qy 193 LDKR-EGEKNILVPLDGGTDFVSLITDNGVFEVATNDGTHLGSEDFDQRMHEFIKL 251
Db 185 LDKR-EGEKNILVPLDGGTDFVSLITDNGVFEVATNDGTHLGSEDFDQRMHEFIKL 244
Qy 252 YKKTKGVKRNRAVOKLREVEKAKRALSSQOARIETLESFEEDEPSSEITLTKKKEE 311
Db 245 YKKTKGVKRNRAVOKLREVEKAKRALSSQOARIETLESFEEDEPSSEITLTKKKEE 304
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Qy 312 LNMDLFRSTMKPVOKVLEDSDLKSDIDEIVLGVSGSTRIPKIQOLVKEFNCKEPSRGIN 371
Db 305 LNSDLFRSTMKPVOKVLEDSDLKSDIDEIVLGVSGSTRIPKIQOLVKEFNCKEPSRGIN 364
Qy 372 PDEAVAYGAAYVAGVLSGD--ODTGDLVLLDVCPLTGTEFGVGMKILPRVTVP 429
Db 365 PDEAVAYGAAYVAGVLSGD--ODTGDLVLLDVCPLTGTEFGVGMKILPRVTVP 424
Qy 430 SOIFSTASDNPOTVTIKYEGEERPLTKDNLGTFEDLTGIPAPRGVPOIEVTFEID 489
Db 425 TOFTFTSDNQGVLQYVEGERATKDNNLGTFELTGIPAPRGVPOIEVTFEID 484
Qy 490 ILKVTAEKGTGNKKKITTNDONRLPEETERNVDAEKFAEDKKLKERIDTRNELES 549
Db 485 ILKVTAEKGTGNKKKITTNDONRLPEETERNVDAEKFAEDKKLKERIDTRNELES 544
Qy 550 YAVSLKNOIGDEKLGKLSDEKETMEKAVEEKLWLESHODADIEDPRAKKKELEEV 609
Db 545 YAVSNMKAATVED-EKLOGKINDEKOKILDKNCENIINWLDKNQTAKEKEEFHQKELE 603
Qy 610 QPITSLKY-GSAGPPTG 626
Db 604 NPITSLKY-GSAGPPTG 621

RESULT 15
US-09-935-642-1
: Sequence 1, Application US/09935642
: Publication No. US20030044795A1
: GENERAL INFORMATION:
: APPLICANT: BYRJALSEN, Inger
: APPLICANT: LARSEN, Peter
: APPLICANT: STEPHEN, John
: TITLE OF INVENTION: Biochemical Markers for the Human
: FILE REFERENCE: 8969-014
: CURRENT APPLICATION NUMBER: US/09/935,642
: CURRENT FILING DATE: 2001-08-24
: PRIOR APPLICATION NUMBER: PCT/GB97/02394
: PRIOR FILING DATE: 1997-09-05
: PRIOR APPLICATION NUMBER: PCT/GB9707132.8
: PRIOR FILING DATE: 1997-04-08
: PRIOR APPLICATION NUMBER: PCT/GB9618600.2
: PRIOR FILING DATE: 1996-09-06
: NUMBER OF SEQ ID NOS: 16
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 1
: LENGTH: 641
: TYPE: PRT
: ORGANISM: Homo sapiens
US-09-935-642-1

Query Match 63.2%; Score 2039.5; DB 11; Length 641;
Best Local Similarity 64.4%; Pred. No. 4.5e-141;
Matches 396; Conservative 105; Mismatches 108; Indels 7; Gaps 6;

Qy 13 VGIDLTGTTSCVGVFRKNGRVEIIANDQGNRTTPSYVAFTEGERLIGDAKKNQUTSNPN 72
Db 7 IGIDLTGTTSCVGVFRKNGRVEIIANDQGNRTTPSYVAFTEGERLIGDAKKNQUTSNPN 65
Qy 73 TYVEDAKRLIGRTWNPVSVOODIKFLPFVVEKTKRPYIQVDIGGGGTGTFAPETISAMVL 132
Db 66 TYVEDAKRLIGRTWNPVSVOODIKFLPFVVEKTKRPYIQVDIGGGGTGTFAPETISAMVL 124
Qy 133 TKKKEIAEAYLGKKTTHAVVTPAYFNDQROATKADGATAGLNVNRITINEPTAAIAVG 192
Db 125 TKKKEIAEAYLGKKTTHAVVTPAYFNDQROATKADGATAGLNVNRITINEPTAAIAVG 184
Qy 193 LDKR-EGEKNILVPLDGGTDFVSLITDNGVFEVATNDGTHLGSEDFDQRMHEFIKL 251
Db 185 LDKR-EGEKNILVPLDGGTDFVSLITDNGVFEVATNDGTHLGSEDFDQRMHEFIKL 244
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OY 252 YKKKTGKDVRRKDNRAVOKLRREVEKAKRALSSOHOARIESESVEGEDESEFTRAKPEE 311
Db 245 FKRHKHKKDISONKRAVRLTACERAKRTLLSSSTOKSLIEDSLFEGIDFTYSTRARPEE 304
OY 312 LNMOLFRRSTMKPVOKVLEDSDLKSDIDEIVLWGSSTRIPKIQOLVKEFFNGKEPSRGIN 371
Db 305 LKSDLFRSTLEPEVEKALRDAKLDKQIHDLVLVWGSSTRIPKVQKLLQDFNGRDLNKSIN 364
OY 372 PDEAVAYGAAVQAGVLSGD--ODTGDVLVDYOCPLTIGIETWGVMTKLIPRNTVVPKK 429
Db 365 PDEAVAYGAAVQAGVLSGD--ODTGDVLVDYOCPLTIGIETWGVMTKLIPRNTVVPKK 424
OY 430 SQIFSTASDNOPVTYIKVEGERPLTKDNHLLGTFDGTGIPAPRGVPOIEVTFEIDVNG 489
Db 425 TQIFFTYSDNOPGVLIQVYEGGERAMTKDNMLGRFELSGIPAPRGVPOIEVTFEIDVNG 484
OY 490 ILRYTAEDKGTGNKNTTITNDONRLTPEIERMNVDAKFAEDKTKLKERIDTRNELES 549
Db 485 ILNVTAFDKSTGANKTITNDKGRLSKEIEKRMVOAEKRYAEDVQREVSANNALES 544
OY 550 YAVSILKNOIGDKKELGKLSSEDEKETMERKAVEKEIEMLESODADIEDFKAKKLEBEIV 609
Db 545 YAFNMKSAVED-EGLKAKIIEADKKVKVLDKCEVTSIMLDANFLAEKDEFEHKKRKLQVC 603
OY 610 OPTISKLY-GSAGPPPTG 626
Db 604 NPITISGLKQAGGPGPG 621
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